

# CONTENTS

## NUMBER 1, JULY, 1989

- 1 PROSTAGLANDIN E<sub>1</sub>: NOT THE MAGIC BULLET IN ARDS  
Stephen G. Jenkinson, San Antonio
- 2 ASTHMA AND GASTROESOPHAGEAL REFLUX  
Donald O. Castell, Winston-Salem, North Carolina
- 3 BRONCHOCENTRIC GRANULOMATOSIS: DISEASE OR DIAGNOSIS?  
Jeffrey L. Myers, Birmingham, Alabama
- 5 INTRODUCING NEW MEMBERS OF THE EDITORIAL BOARD
- 6 DELIVERY OF ALBUTEROL AND IPRATROPIUM BROMIDE FROM TWO NEBULIZER SYSTEMS IN CHRONIC STABLE ASTHMA  
Margaret A. Johnson; Steven P. Newman; Roy Bloom; Neda Taleae; Stewart W. Clarke, London, England
- 11 EXERCISE RESPONSES DURING INCREMENTAL AND HIGH INTENSITY AND LOW INTENSITY STEADY STATE EXERCISE IN PATIENTS WITH OBSTRUCTIVE LUNG DISEASE AND NORMAL CONTROL SUBJECTS  
Joseph I. Matthews; Bruce A. Bush; Frank W. Ewald, San Antonio
- 18 PULMONARY COMPLICATIONS IN LEAD MINERS  
Mohammad-Reza Masjedi; Nahid Estineh; Moslem Bahadori; Mohammad Alavi; Nancy L. Sprince, Boston
- 22 GALLIUM LUNG SCANNING AND BRONCHOALVEOLAR LAVAGE IN CROCIDOLITE-EXPOSED WORKERS  
Anthony A. Hayes; Brian Mullian; Frederic T. Lovegrove; Alison H. Rose; Arthur W. Musk; Bruce W. Robinson, Nedlands, Western Australia
- 27 PROPHYLACTIC TREATMENT OF POSTPERFUSION BLEEDING USING EACA  
Anthony Del Rossi; Aurel C. Cernaianu; S. Botros; Gerald M. Lemole; Roger Moore, Browns Mills, NJ
- 31 INDICATIONS FOR SURGERY BASED ON LUNG BIOPSY IN CASES OF VENTRICULAR SEPTAL DEFECT AND/OR PATENT DUCTUS ARTERIOSUS WITH SEVERE PULMONARY HYPERTENSION  
Shigeo Yamaki; Hitoshi Mohri; Kiyoshi Haneda; Masato Endo; Hiroji Akimoto, Sendai, Japan
- 40 LONG-TERM RESULTS OF SURGICAL TREATMENT FOR GASTROESOPHAGEAL REFLUX IN ASTHMATIC PATIENTS  
Max Perrin-Fayolle; Frederic Gormand; Georges Brailion; Roger Lombard-Platet; Jacques Vignal; Danielle Azzar; Jacques Forichon; Patrick Adeleine, Pierre Benite, France
- 46 DIFFERENCES IN ACOUSTIC AND DYNAMIC CHARACTERISTICS OF SPONTANEOUS COUGH IN PULMONARY DISEASES  
Päivi Piirilä; Ans R. A. Sovijärvi, Helsinki, Finland
- 54 FLOW CYTOMETRIC EVALUATION OF BRONCHOSCOPIC WASHINGS AND LAVAGE FLUID FOR NDA ANEUPLOIDY AS AN ADJUNCT IN THE DIAGNOSIS OF LUNG CANCER AND TUMORS METASTATIC TO THE LUNG  
Eric B. Yoss; David Berd; John R. Cohn; Stephen P. Peters, Philadelphia
- 60 POSTURAL EFFECT ON GAS EXCHANGE IN PATIENTS WITH UNILATERAL PLEURAL EFFUSIONS  
Shi-Chuan Chang; Guang-Ming Shiao; Reury-Peng Perng, Taipei, Taiwan, Republic of China
- 64 RECOVERY OF HUMAN IMMUNODEFICIENCY VIRUS AND DETECTION OF P24 ANTIGEN IN BRONCHOALVEOLAR LAVAGE FLUID FROM ADULT PATIENTS WITH AIDS  
Calvin C. Linnemann, Jr.; Robert P. Baughman; Peter T. Frame; Roger Floyd, Cincinnati
- 68 NEW SERUM INDICATOR OF INTERSTITIAL PNEUMONITIS ACTIVITY: SIALYLATED CARBOHYDRATE ANTIGEN KL-6  
Nobuaki Kohno; Seishi Kyoizumi; Yukikazu Aways; Hirofumi Fukuhara; Michio Yamakido; Mitoshi Akiyama, Kure, Japan
- 74 COMPARISON OF ANTIHYPERTENSIVE THERAPIES BY NONINVASIVE TECHNIQUES  
William F. Graettinger; Jodi L. Lipson; Russell C. Klein; Deanna G. Cheung; Michael A. Weber, Irvine, California
- 80 TREATMENT OF PACEMAKER IN FAMILIAL AMYLOID POLYNEUROPATHY  
Nobuyuki Anzai; Kazuya Akiyama; Kohko Tsuchida; Manabu Yamada; Shozo Kito; Yasuhiro Yamamura, Hiroshima, Japan
- 85 THE EFFECT OF BREATHING FREQUENCY ON INSPIRATORY MUSCLE ENDURANCE DURING INCREMENTAL THRESHOLD LOADING  
Nancy J. Morrison; Mary Sue Fairbairn; Richard L. Pardy, Vancouver, Canada
- 89 PERIODIC LEG MOVEMENTS IN SLEEP FOLLOWING TREATMENT OF OBSTRUCTIVE SLEEP APNEA WITH NASAL CONTINUOUS POSITIVE AIRWAY PRESSURE  
June M. Fry; Mark A. DiPhillipo; Mark R. Pressman, Philadelphia
- 92 BRONCHOCENTRIC MYCOSIS OCCURRING IN TRANSPLANT RECIPIENTS  
Henry D. Tazelaar; Andrea M. Baird; Michael Mill; Margaret M. Grimes; Larry L. Schulman; Craig R. Smith
- 96 THE EFFECTS OF ACUTE HYPOXIA AND HYPERCAPNIA ON PULMONARY MECHANICS IN NORMAL SUBJECTS AND PATIENTS WITH CHRONIC PULMONARY DISEASE  
Polly E. Parsons; Michael M. Grunstein; Enrique Fernandez, Philadelphia
- 102 COMPARISON OF REAL AND PLACEBO ACUPUNCTURE IN HISTAMINE-INDUCED ASTHMA  
Maharaj K. Tandon; Philip F. T. Soh, Hollywood, Western Australia
- 106 DUAL-RESPIRATORY RHYTHMS: A KEY TO DIAGNOSIS OF DIAPHRAGMATIC FLUTTER IN PATIENTS WITH HVS  
Tetsuri Kondo; Seiji Tamaya; Yasuyo Ohta; Hajime Yamabayashi, Isehara, Japan
- 110 NEOADJUVANT VINDESINE, ETOPOSIDE, AND CISPLATIN FOR LOCALLY ADVANCED NON-SMALL CELL LUNG CANCER  
Evalett E. Vokes; Jacob D. Bitran; Philip C. Hoffman; Mark K. Ferguson; Ralph R. Weichselbaum; Harvey M. Golomb, Chicago
- 114 RANDOMIZED DOUBLE-BLIND, MULTICENTER STUDY OF PROSTAGLANDIN E<sub>1</sub> IN PATIENTS WITH THE ADULT RESPIRATORY DISTRESS SYNDROME  
Roger C. Bone; Gus Slotman; Richard J. Maunder; Henry Silverman; Thomas M. Hyers; Morris D. Kerstein; Joseph J. Ursprung; and the Prostaglandin E<sub>1</sub> Study Group
- 120 COMPARISON OF HEMODYNAMIC AND OXYGEN TRANSPORT EFFECTS OF DOPAMINE AND DOBUTAMINE IN CRITICALLY ILL SURGICAL PATIENTS  
William C. Shoemaker; Paul L. Appel; Harry B. Kram; David Duarte; H. Dale Harrier; H. A. Ocampo, Los Angeles
- 127 EFFECT ON ICU MORTALITY OF A FULL-TIME CRITICAL CARE SPECIALIST  
Jeremy J. Brown; Glendon Sullivan, Winnipeg, Canada
- 130 DIAPHRAGMATIC CONTRACTION DURING ASSISTED MECHANICAL VENTILATION  
Gregory R. Flick; Paul E. Bellamy; Daniel H. Simmons
- 136 OUTCOME OF INFANTS WITH CYSTIC FIBROSIS REQUIRING MECHANICAL VENTILATION FOR RESPIRATORY FAILURE  
Jeffery S. Garland; Yuen M. Chan; Kevin J. Kelly; Thomas B. Rice, Milwaukee
- 139 NUTRITIONAL SUPPORT IN THE CRITICAL CARE SETTING (PART I)  
Rolando Berger; Linas Adams, Lexington, Kentucky
- 151 SHORT- AND LONG-TERM COMPLICATIONS OF CORONARY ANGIOPLASTY  
Richard A. Lange; L. David Hillis, Dallas
- 158 PATHOGENESIS OF THE PSEUDOMONAS LUNG LESION IN CYSTIC FIBROSIS  
Robert B. Fick, Jr, Iowa City
- 165 INFLUENCE OF THE EXTRACELLULAR MATRIX ON TYPE II CELL DIFFERENTIATION  
D. Eugene Rannels; Stephen R. Rannels, Hershey, Pennsylvania
- 174 INSTANTANEOUS ELECTROCARDIOGRAPHY: A SIMPLE SCREENING TECHNIQUE FOR CARDIAC EXERCISE PROGRAMS  
Barry A. Franklin; Pamela S. Reed; Seymour Gordon; Gerald C. Timmis, Royal Oak, Michigan
- 178 CONSENSUS CONFERENCE ON ARTIFICIAL AIRWAYS IN PATIENTS RECEIVING MECHANICAL VENTILATION  
Alan L. Plummer, Atlanta; Douglas R. Gracey, Rochester, Minnesota
- 180 PHYSIOLOGIC IMPLICATIONS OF ARTIFICIAL AIRWAYS  
Michael P. Habib, Tucson
- 185 MECHANISMS OF LARYNGOTRACHEAL INJURY FOLLOWING PROLONGED TRACHEAL INTUBATION  
Michael J. Bishop, Seattle
- 186 MEDICAL INDICATIONS FOR TRACHEOTOMY  
John E. Heffner, Charleston, South Carolina
- 190 TIMING OF TRACHEOSTOMY IN THE CRITICALLY ILL PATIENT  
H. Michael Marsh; Delmar J. Gillespie; Anita E. Baumgartner, Rochester, Minnesota
- 193 FINANCIAL IMPLICATIONS OF PROLONGED VENTILATOR CARE UNDER DRGS 474 AND 475  
Douglas R. Gracey; Fred T. Nobrega; James M. Naessens; Iqbal Krishan, Rochester, Minnesota
- 195 A MIGRATORY INFILTRATE IN A PATIENT WITH HEMOPTYSIS AND CHEST PAIN  
Andrew J. Ghori; C. Gregory Elliott; Robert O. Crapo; Michael P. Collins; Irena Tocino, Salt Lake City
- 197 HIV-ASSOCIATED BRONCHIOLITIS OBLITERANS ORGANIZING PNEUMONIA  
James N. Allen; Mark D. Wewers, Columbus, Ohio
- 199 ENDOBRONCHIAL MYCOBACTERIUM AVIUM-INTRACELLULAR INFECTION IN A PATIENT WITH AIDS  
Mark E. Mehle; James P. Adamo; Atul C. Mehta; Herbert P. Wiedemann; Thomas Keys; David L. Longworth, Cleveland
- 201 SARCOIDOSIS DIAGNOSED IN A PATIENT WITH KNOWN HIV INFECTION  
Lawrence E. Coats; Angelina A. Lazarus, Portsmouth, Virginia
- 202 THROMBOCYTOPENIA—A RARE BUT POTENTIALLY SERIOUS SIDE EFFECT OF INITIAL DAILY AND INTERRUPTED USE OF RIFAMPICIN  
Cheng-Huei Lee; Ching-Yih Lee, Taipei, Taiwan, Republic of China
- 204 INFECTIOUS MONONUCLEOSIS COMPLICATED BY NECROTIZING EPIGLOTTITIS, DYSPHAGIA, AND PNEUMONIA  
Jay Biem; Louise Roy; Jerry Hall; Victor Hoffstein, Toronto, Canada
- 205 RECURRENCE OF SLEEP APNEA SYNDROME FOLLOWING TRACHEOSTOMY  
Eugene C. Fletcher, Houston
- 209 COMBINED AORTIC AND MITRAL VALVE REPLACEMENT IN AN ADULT WITH SCHEIE'S DISEASE  
Samuel M. Butman; Linda Kart; Jack G. Copeland, Tucson
- 210 REVERSIBILITY OF UPPER AIRWAY OBSTRUCTION AFTER LEVODOPA THERAPY IN PARKINSON'S DISEASE  
Walter G. Vincken; Carmer M. Daraway; Manuel G. Cosio, Brussels, Belgium
- 212 ECHOCARDIOGRAPHIC DETECTION OF AN INFECTED SUPERIOR VENA CAVAL THROMBUS PRESENTING AS A RIGHT ATRIAL MASS  
Andrew E. Dick; Charles M. Gross; Joseph W. Rubin, Augusta, Georgia
- 215 CUTANEOUS VASCULITIS ASSOCIATED WITH RIFAMPIN THERAPY  
John P. Iredale; Ramachandran Sankaran; Christopher G. Wathen, Edinburgh, Scotland
- 216 GOLD-NAPROXEN PNEUMONITIS: A TOXIC DRUG INTERACTION?  
Robin G. McFadden; Laurence J. Fraher; John M. Thompson, London, Canada

- 218 BRONCHOLITHIASIS DUE TO *HISTOPLASMA CAPSULATUM* SUBSEQUENTLY INFECTED BY ACTINOMYCETES  
Larry S. Hirschfield; L. Michael Graver; Henry D. Isenberg, Stony Brook, New York
- 219 TRANSIENT COMPLETE AV BLOCK IN LYME DISEASE; ELECTROPHYSIOLOGIC OBSERVATIONS  
Marcel R. van der Linde; Harry J. G. M. Crijns; Kong I. Lie, Groningen, the Netherlands
- 222 PULMONARY HEMORRHAGE IN A COCAINE ABUSER  
Joseph W. Walek; Richard G. Masson; Mohammad Siddiqui, Framingham, Massachusetts  
Response—Richard J. Murray, Robert J. Albin, Baltimore
- 222 ST DEPRESSION AND ELEVATION IN VASOSPASTIC ANGINA  
Vincenzo Santinelli; Pietro Turco; Massimo Chiariello, Naples, Italy  
Response—Rechia, London, England
- 223 DETECTING ANTIMYCOBACTERIAL ANTIBODIES  
Jean Paul Van Vooren; Claire Michele Farber; Jean-Claude Yernault, Brussels, Belgium  
Response—Howard Levy, Duarte, California
- 224 PLEURAL FLUID IN WEGENER'S GRANULOMATOSIS  
Philippe Gris; Pierre Duchatelet; Jean-Pierre Dierckx; Hubert Demol; Albert Quoidbach; Etienne Dupont, Baudour, Belgium

# NUMBER 1, JULY, 1989 (Supplement)

- 1S INTRODUCTION  
Robert J. Ginsberg, Toronto, Canada; Rudolf A. Joss, Lucerne, Switzerland; Ronald Feld, Toronto, Canada
- 1S LUNG CANCER—A WORLDWIDE HEALTH PROBLEM  
Kenneth Stanley; Jan Stjernsward, Geneva, Switzerland
- 5S TRENDS IN LUNG CANCER INCIDENCE WORLDWIDE  
D. M. Parkin, Lyon, France
- 8S DIET AND LUNG CANCER  
Anthony B. Miller, Harvey A. Risch, Toronto, Canada
- 9S THE NATIONAL CANCER INSTITUTE'S SMOKING, TOBACCO, AND CANCER PROGRAM  
Joseph W. Cullen, Bethesda
- 13S ROLE OF THE PHYSICIAN AS OPINION LEADER IN TOBACCO CONTROL  
Michael Kunze, Vienna, Austria
- 14S CHEMOPREVENTION OF LUNG CANCER; PROBLEMS AND PROGRESS  
Peter Greenwald; Joseph W. Cullen; Gary Kelloff; Herbert F. Pierson, Bethesda
- 17S GENETIC EVENTS IN THE PATHOGENESIS OF LUNG CANCER  
John D. Minna, Bethesda
- 24S MOLECULAR MECHANISMS IN CHEMICALLY INDUCED CANCER  
P. J. O'Connor, Manchester, England
- 25S ONCOGENES AND GENETIC ABNORMALITIES IN LUNG CANCER  
Desmond N. Carney, Dublin, Ireland
- 27S MONOCLONAL ANTIBODIES IN LUNG CANCER  
Rolf A. Stahel, Zurich, Switzerland
- 29S LUNG CANCER AND AUTOCHRONIC GROWTH FACTORS  
Ken Yamaguchi; Koh-ichi Imanishi; Kaname Maruno; Yoshio Miyake; Yukio Shimamoto; Kaoru Abe, Tokyo, Japan
- 31S AUTOCRINE GROWTH FACTORS AS THERAPEUTIC TARGETS IN LUNG CANCER  
James L. Mulshine; Anthony M. Trestone; Ronald B. Natale; Philip G. Kasprzyk; Ingdill Avis; Yoichi Nakanishi; Frank Cutitta, Bethesda
- 34S THE CLINICAL RELEVANCE OF RECENT DEVELOPMENTS IN PATHOLOGY AND BIOLOGY OF SMALL CELL LUNG CANCER  
Fred R. Hirsch; Heine H. Hansen, Copenhagen, Denmark
- 37S FACTORS POSSIBLY AFFECTING THE DEGREE OF MALIGNANCY IN ADENOCARCINOMA OF THE LUNG  
Yukio Shimamoto; Hisao Asamura; Katsuki Yoshida; Masayuki Noguchi; Takashi Nakajima; Kiyoshi Mukai, Tokyo, Japan

- 38S POORLY DIFFERENTIATED AND UNDIFFERENTIATED LUNG TUMORS  
Bruce Mackay, Houston
- 39S ADVANCES IN THE BIOLOGY OF LUNG CANCER: CLINICAL SIGNIFICANCE OF NEUROENDOCRINE DIFFERENTIATION  
Adi E. Gazdar, Bethesda
- 41S BRONCHIAL TELEVISION ENDOSCOPY  
Shigeto Ikeda, Tokyo, Japan
- 42S PREOPERATIVE ASSESSMENT OF LUNG CANCER  
P. Drings, Heidelberg, West Germany
- 44S RADIOLOGIC STAGING OF LUNG CANCER USING CT AND MRI  
Gary M. Glazer, Stanford, California
- 47S VALUE OF THE NEW TNM STAGING SYSTEM FOR LUNG CANCER  
Clifton F. Mountain, Houston
- 50S LIMITED RESECTION IN THE TREATMENT OF STAGE I NON-SMALL CELL LUNG CANCER  
Robert J. Ginsberg, Toronto, Canada
- 51S EXTENDED OPERATIONS FOR T3-T4 PRIMARY LUNG CANCERS  
P. Darville; J. Marzelle; A. Chapellier; F. Loc'h, Plessis Robinson, France
- 53S BRONCHOPLASTIC AND BRONCHOVASCULAR PROCEDURES OF THE TRACHEOBRONCHIAL TREE IN THE MANAGEMENT OF PRIMARY LUNG CANCER  
Tsuguo Naruke, Tokyo, Japan
- 56S INNOVATIVE CHEMOTHERAPY; XENOGRAPHS AND IN VITRO DRUG SENSITIVITY TESTING  
Adi E. Gazdar, Bethesda
- 59S NEW TREATMENTS FOR SMALL CELL LUNG CANCER  
Ian E. Smith, Surrey, England
- 61S CHEMOTHERAPY FOR SMALL CELL LUNG CANCER  
John F. Smyth, Edinburgh, Scotland
- 62S OPTIMUM DURATION OF TREATMENT WITH COMBINATION CHEMOTHERAPY FOR SMALL CELL LUNG CANCER  
M. H. Cullen, Birmingham, England
- 64S SHOULD WE INTENSIFY THE TREATMENT OF SMALL CELL LUNG CANCER?  
Joseph Aisner, Baltimore
- 66S HIGH-DOSE CHEMOTHERAPY IN LUNG CANCER  
R. L. Souhami, London, England
- 68S ALTERED FRACTIONATION FOR NON-SMALL CELL CARCINOMA OF THE LUNG  
J. D. Cox; N. Azamia; R. W. Byhardt; C. A. Perez; K. Fu; J. J. Spunberg; W. T. Sause
- 69S HYPERHERMIA IN THE MANAGEMENT OF LUNG CANCER  
N. M. Bleehen, Cambridge, England
- 72S HIGH-LET RADIATION THERAPY OF NON-SMALL CELL LUNG CANCER  
M. Austin-Seymour; T. Griffin; G. Laramore; M. Maor; R. Parker, Seattle
- 73S REPORT ON THE IASLC LE HAVRE WORKSHOP ON COMBINED MODALITY TREATMENT IN SMALL CELL LUNG CANCER  
T. Le Chevalier; R. Arriagada, Villejuif, France
- 74S COMBINED MODALITY TREATMENT OF SMALL CELL LUNG CANCER  
Omar M. Salazar, Baltimore
- 78S HOW SHOULD THORACIC RADIOTHERAPY BE GIVEN IN LIMITED SMALL CELL LUNG CANCER?  
R. Arriagada, Villejuif, France
- 80S SUMMARY OF PATHOBIOLOGIC PRESENTATIONS  
George D. Sorenson, Hanover, New Hampshire
- 82S REPORT OF THE IASLC LE HAVRE WORKSHOP ON NON-SMALL CELL LUNG CANCER  
R. Arriagada; T. Le Chevalier, Villejuif, France
- 83S TREATMENT OF N2 NON-SMALL CELL LUNG CANCER (NSCLC)  
J. Klastersky, Brussels, Belgium; Ronald Feld, Toronto, Canada; J. P. Kleisbauer, Marseille, France; P. Rodman, Brussels, Belgium
- 85S RADIOTHERAPY IN NON-SMALL CELL LUNG CANCER  
Maurice Tubiana, Villejuif, France
- 87S ADJUVANT THERAPY FOR NON-SMALL CELL LUNG CANCER  
W. K. Evans, Ottawa, Canada
- 92S THE EPIDEMIOLOGY AND PATHOGENESIS OF MALIGNANT MESOTHELIOMA

- John E. Craighead, Burlington, Vermont
- 93S NATURAL HISTORY AND STAGING OF MALIGNANT MESOTHELIOMA  
Karen H. Antman, Boston
- 95S THERAPEUTIC APPROACH TO MALIGNANT MESOTHELIOMA  
Joseph Aisner, Baltimore
- 97S CLINICAL TRIALS FOR CLINICIANS  
R. D. Gelber, Boston; A. Goldhirsch, Lugano, Switzerland
- 102S PROBLEMS IN ASSESSING QUALITY OF LIFE (QL) OF LUNG CANCER PATIENTS IN CLINICAL TRIALS  
Christoph Hüry; Jürg Bernhard, Bern, Switzerland
- 105S QUALITY OF LIFE ASSESSMENT IN PATIENTS WITH CARCINOMA OF THE LUNG  
Ronald Feld, Toronto, Canada

# NUMBER 2, AUGUST, 1989

- 225 MEDROXYPROGESTERONE AND OBSTRUCTIVE SLEEP APNEA  
Richard P. Millman, Providence, Rhode Island
- 226 TRANSBRONCHIAL NEEDLE BIOPSY FOR HISTOLOGY SPECIMENS  
Ko Pen Wang, Baltimore
- 227 CORONARY STEAL; IS IT CLINICALLY IMPORTANT?  
K. Lance Gould, Houston
- 229 TOBACCO AND HEALTH; THE ROLE FOR PHYSICIANS  
Ernst L. Wynder, New York
- 230 BRONCHIAL HYPERRESPONSIVENESS TO INHALED METHACHOLINE IN SUBJECTS WITH CHRONIC LEFT HEART FAILURE AT A TIME OF EXACERBATION AND AFTER INCREASING DIURETIC THERAPY  
Christophe Pison; Jean-Luc Malo; Jean-Lucien Rouleau; Jean Chalaoui; Heberto Ghezzi; Jacques Malo, Montreal, Canada
- 236 THE PREVALENCE OF PULMONARY HYPERTENSION IN THE UNITED STATES; ADULT POPULATION ESTIMATES OBTAINED FROM MEASUREMENTS OF CHEST ROENTGENOGRAMS FROM THE NHANES II SURVEY  
Stuart Rich; Eva Chomka; Lawrence Hasar; Kimberly Hart; Terence Driz; Esther Joo; Paul S. Levy, Chicago
- 242 SEVERE "SILENT" MITRAL REGURGITATION; A POTENTIALLY REVERSIBLE CAUSE OF REFRACTORY HEART FAILURE  
Theodore L. Schreiber; Jeffrey Fisher; Arun Mangla; David Miller, New York
- 247 INVENTORY OF NUTRITIONAL STATUS IN PATIENTS WITH COPD  
Annie Schols; Rob Mostert; Peter Soeters; Leo H. Greve; Emiel F. M. Wouters, Horn, The Netherlands
- 250 INCREASED CSF OPIOID ACTIVITY IN SLEEP APNEA SYNDROME; REGRESSION AFTER SUCCESSFUL TREATMENT  
Thorarin Gislason; Magnus Almqvist; Gunnar Boman; Carl-Eric Lindholm; Lars Terenius, Uppsala, Sweden
- 255 EVALUATION OF AUTOMATIC ANALYSIS OF SCSB, AIRFLOW AND OXYGEN SATURATION SIGNALS IN PATIENTS WITH SLEEP-RELATED APNEAS  
Tapani Salmi; Tiina Telakivi; Markku Partinen, Helsinki, Finland
- 262 INDICES OF SEVERITY OF OBSTRUCTIVE SLEEP APNEA SYNDROME DO NOT CHANGE DURING MEDROXYPROGESTERONE ACETATE THERAPY  
William R. Cook; Joseph J. Benich; Sally A. Wooten, Charleston, South Carolina
- 267 DETERMINANTS OF MAXIMUM EXERCISE CAPACITY IN PATIENTS WITH CHRONIC AIRFLOW OBSTRUCTION  
Thomas A. Dillard; Steven Plantadosi; Krishnan R. Rajagopal, Bethesda
- 272 UTILITY OF THE WANG 18-GAUGE TRANSBRONCHIAL HISTOLOGY NEEDLE IN THE STAGING OF BRONCHOGENIC CARCINOMA  
David A. Schenk; Patrick J. Strollo; Jeb S. Pickard; Rafael M. Santiago; Charles A. Weber; Cary V. Jackson; Robert S. Burrell; John A. Dew; Kevin H. Komadina; Jay Segarra; Donald K. Porter,

- Lackland AFB, Texas
- 275 LEFT VENTRICULAR FUNCTION DURING STABLE SUSTAINED VENTRICULAR TACHYCARDIA; HEMODYNAMIC AND ECHO-DOPPLER ANALYSIS  
Scott B. Baron; Shoen K. Stephen Huang; Keith A. Comess, Tucson
- 281 BRONCHIAL RESPONSIVENESS TO EXERCISE AFTER HUMAN CARDIOPULMONARY TRANSPLANTATION  
Allan R. Glanville; Genevieve M. Gabb; James Theodore; Eugene D. Robin, Stanford
- 287 SKIN COLOR AND EAR OXIMETRY  
Andrew L. Ries; Lela M. Prewitt; Jeffery J. Johnson, San Diego
- 291 MORE LUNG CANCER BUT BETTER SURVIVAL; IMPLICATIONS OF SECULAR TRENDS IN "NECROPSY SURPRISE" RATES  
Charles K. Chan; Carolyn K. Wells; Michael J. McFarlane; Alan R. Feinstein
- 297 IRRITANT-INDUCED OCCUPATIONAL ASTHMA  
Susan M. Tard; Irvin Broder, Toronto, Canada
- 301 LONGITUDINAL CHANGES IN PULMONARY FUNCTION FOLLOWING BONE MARROW TRANSPLANTATION  
David S. Prince; John R. Wingard; Rein Saral; George W. Santos; Robert A. Wise, Baltimore
- 307 MEASUREMENTS OF COMPONENTS OF RESISTANCE TO BREATHING  
S. T. Chiang; J. Green; W. F. Wang; Y. J. Yang; G. M. Shiao; S. C. King, Taipei, Taiwan
- 312 NUCLEAR DNA ANALYSIS BY CYTOFLUOROMETRY OF STAGE I ADENOCARCINOMA OF THE LUNG IN RELATION TO POSTOPERATIVE RECURRENCE  
Hisao Asamura; Takashi Nakajima; Kiyoshi Mukai; Yukio Shimamoto, Tokyo, Japan
- 319 OPEN LUNG BIOPSY IN PATIENTS WITH NON-HODGKIN'S LYMPHOMA AND PULMONARY INFILTRATES  
Robert E. McCabe; Robert G. Brooks; James R. Catterall; Jack S. Remington, Stanford
- 325 DISCRETE SUBAORTIC STENOSIS; SURGERY IN CHILDREN BASED ON TWO-DIMENSIONAL AND DOPPLER ECHOCARDIOGRAPHY  
Carlo Pierli; Bruno Marino; Sergio Picardo; Antonio Corno; Luciano Pasquini; Carlo Marcelletti, Siena, Italy
- 329 AN ASSESSMENT OF PEAK EXPIRATORY FLOW AS A SURROGATE MEASUREMENT OF FEV<sub>1</sub> IN STABLE ASTHMATIC CHILDREN  
Arthur A. Meltzer; Michael H. Smolensky; Gilbert E. D'Alonzo; Ronald B. Harris; Peter H. Scott, Atlanta
- 334 PULMONARY TOXICITY OF RECOMBINANT HUMAN TUMOR NECROSIS FACTOR  
Joseph H. Kuei; Donald P. Tashkin; Robert A. Figlin, Los Angeles
- 339 TYPE 3 PROCOLLAGEN PEPTIDE IN BRONCHOALVEOLAR LAVAGE FLUID; POOR INDICATOR OF COURSE AND PROGNOSIS IN SARCOIDOSIS  
Clare O'Connor; Kevin Ward; Alex van Breda; Ann McGilgorn; Muir X. FitzGerald, Dublin, Ireland
- 345 WEGENER'S GRANULOMATOSIS PRESENTING AS ACUTE RESPIRATORY FAILURE WITH ANTI-NEUTROPHIL-CYTOPLASM ANTIBODIES  
Christine Lenclud; Paul De Vuyst; Etienne Dupont; Michel Depierreux; Paulette Ketelbant; Michel Goldman, Brussels, Belgium
- 348 A PROSPECTIVE COMPARISON OF IMV AND T-PIECE WEANING FROM MECHANICAL VENTILATION  
James R. Tomlinson; K. Scott Miller; Daniel G. Lorch; Linda Smith; H. David Reines; Steven A. Sahn, Charleston, South Carolina
- 353 IMPACT OF A COMPREHENSIVE SUPPORTIVE CARE TEAM ON MANAGEMENT OF HOPELESSLY ILL PATIENTS WITH MULTIPLE ORGAN FAILURE  
Brenda E. Field; Lynn E. Devich; Richard W. Carlson, Detroit
- 357 DIAGNOSIS OF PULMONARY EMBOLISM BASED UPON ALVEOLAR DEAD SPACE ANALYSIS  
Leif Eriksson; Per Wollmer; Carl-Gustav Olsson; Ulf Albrechtsson; Hrafnhildur Larusdottir; Roma Nilsson; Anders Sjogren; Björn Jonson, Lund, Sweden
- 363 SKELETAL MUSCLE BLOOD FLOW AND VENOUS CAPACITANCE IN PATIENTS WITH SEVERE SEPSIS AND SYSTEMIC HYPOPERFUSION  
Mark E. Astiz; Eric C. Rackow; Paul Haydon; George Karras; Max Harry Weil, North Chicago, Illinois
- 367 ALTERATION OF PULMONARY OXYGENATION BY PULMONARY ARTERY OCCLUDED PRESSURE MEASUREMENTS IN MECHANICALLY VENTILATED PATIENTS  
Yumiko Ishizawa; Shuji Dohi, Tsukuba City, Japan
- 372 NUTRITIONAL SUPPORT IN THE CRITICAL CARE SETTING (PART 2)  
Rolando Berger; Linas Adams, Lexington, Kentucky
- 381 DYSPLASIA IN PREGNANCY  
Michael F. Tenholder; Jeannette E. South-Paul, Washington, DC
- 389 INTERSTITIAL LUNG DISEASE IN A YOUNG CHILD  
Shashi Aggarwal; Narendra K. Arora; Ragini Koyana; Sima Mukhopadhyay; Alka Kumar, New Delhi, India
- 391 DEXTROCARDIA?  
Gregor P. M. Manves; Eric J. van der Jagt; Bert Wouters; Pieter E. Postmus, Groningen, The Netherlands
- 393 CALCIUM CHANNEL BLOCKERS AS INHIBITORS OF DRUG METABOLISM  
Bernard A. Hunt; Timothy H. Self; Richard L. Laionde; Michael B. Bottorff, Memphis
- 400 THE EFFECT OF DYPYRIDAMOLE ON TRANS-MURAL BLOOD FLOW GRADIENTS  
Denis J. Meerdink; Robert D. Okada; Jeffrey A. Leppo; Worcester, Massachusetts
- 406 CONDUCTION SYSTEM IN CHILDREN WITH ACQUIRED IMMUNODEFICIENCY SYNDROME  
Saroja Bharati; Vijay V. Joshi; Edward M. Connor; James M. Oleske; Maurice Lev
- 414 ATRIOVENTRICULAR JUNCTIONAL PARASYSTOLE WITH VENTRICULAR FUSION BEATS DUE TO COMPLICATING WOLFF-PARKINSON-WHITE SYNDROME  
Giuseppe Oreto; Antonino Donato; David Blumsohn; Keith Segal; Neil Maresky; Leo Schamroth, Messina, Italy
- 416 ASTHMA, EOSINOPHILIA AND PALPABLE PURPURA  
Nancy B. Murray; Francis A. Barber; Kevin M. Murray, San Diego
- 419 REVERSION OF MITRAL VALVE PRECLOSURE IN ACUTE AORTIC INSUFFICIENCY SECONDARY TO INFECTIVE ENDOCARDITIS  
John D. Rozich; Jackie Kaiser; Douglas L. Mann, Charleston, South Carolina
- 421 REVERSIBLE HYPERINFLATION IN EMPHYSEMA  
Marshall I. Hertz; Robert S. Bonser; Stuart W. Jamieson; Joseph Tashjian; Robert A. Halvorsen, Minneapolis
- 423 CONGENITAL CENTRAL HYPOVENTILATION SYNDROME ASSOCIATED WITH MULTIPLE GANGLIONEUROMAS  
Sourya Swaminathan; Vincente Gilsanz; James Atkinson; Thomas G. Keens, Los Angeles
- 424 ACCESSORY THYROID TISSUE IN THE RIGHT VENTRICLE  
Elisabetta Doria; Piergiuseppe Agostoni; Cesare Fiorentini, Milan, Italy
- 426 LEFT VENTRICULAR THROMBUS IN THE ABSENCE OF DETECTABLE HEART DISEASE  
Steve A. Vaganos; Kevin R. Fox; James G. Kitchen, III, Philadelphia
- 427 TREATMENT OF TRACHEOBRONCHIAL GRANULAR CELL MYOBLASTOMAS WITH ENDOSCOPIC BIPOLAR CAUTERY  
Laurence Cunningham; Gary Wendell; Leonard Berkowitz; Edward S. Schulman; Robert Promisoff, Philadelphia
- 429 T-WAVE INVERSION ASSOCIATED WITH SEVERE THEOPHYLLINE TOXICITY  
Scott A. Kolerand; Charles C. Nydegger; R. Stephen Porter, Philadelphia
- 431 MYOCARDIAL INFARCTION COMPLICATING CARDIOVASCULAR STRESS TESTING WITH NORMAL CORONARY ARTERIOGRAPHY  
Mark Jenkins; David Tate; Avinindra Jain, Chapel Hill
- 432 COMPUTED TOMOGRAPHIC DETECTION OF CAVITARY LUNG LESION COMPLICATING USE OF FLOW-DIRECTED BALLOON-TIPPED CATHETER  
Myung S. Shin; Russel C. Reeves; Kang-Jey Ho, Birmingham, Alabama
- 434 EFFECTIVENESS OF CHEMOEMBOLIZATION THERAPY FOR METASTATIC RIGHT ATRIAL TUMOR THROMBUS ASSOCIATED WITH HEPATOCELLULAR CARCINOMA  
Yasunobu Dazai; Toshikazu Katoh; Ichiro Katoh; Shouzo Sueda; Ryoichi Yoshida; Yawatahama City, Japan
- 436 NEUROGENIC PULMONARY EDEMA AFTER TRIGEMINAL NERVE BLOCKADE  
Robert S. Wright; Tony Feuerman; Julie Brown, Los Angeles
- 438 NUMEROUS MESOTHELIAL CELLS IN TUBERCULOUS PLEURAL EFFUSIONS  
Kam-Yung Lau, El Paso
- 440 PLEURAL EFFUSION AS THE INITIAL MANIFESTATION OF DISSEMINATED CRYPTOCOCCOSIS IN ACQUIRED IMMUNE DEFICIENCY SYNDROME  
Alan S. Katz; Leonard Niesenbaum; Burton Mass, Philadelphia
- 441 ROUNDED ATELECTASIS ASSOCIATED WITH END-STAGE RENAL DISEASE  
Lawrence Yao; Donald A. Killam, Albany, New York
- 444 FREE-FLOATING THROMBI; EFFECTS OF VENOGRAPHY ON CHOICE OF THERAPY FOR RECURRENT PULMONARY EMBOLISM  
Valeriano Foresti; Giuseppina Guareschi; Franco Confalonieri, Milan, Italy
- 444 CORRECTION  
Mark O. Farber, Indianapolis
- 444 PRE-CLOTTEING TECHNIQUES IN THORACIC SURGERY  
Thomas J. Berger, Great Falls  
Response—Eddie L. Hoover, Nashville
- 445 EOSINOPHILIC ALVEOLITIS  
Robert L. Smith; Kenneth A. Berkowitz, New York  
Response—W. Bruce Davis, Columbus, Ohio
- 446 OXYGEN UPTAKE AND MECHANICAL VENTILATION  
Neil R. Macintyre, Durham  
Response—Rolf D. Hubmayr; Lynn M. Loosbrock; Delmar J. Gillespie; Joseph R. Rodarte, Rochester, Minnesota
- 447 ECHOCARDIOGRAPHY VS CT IN LUNG CANCER  
Paul Start, Loma Linda, California  
Response—Darryl S. Weiman, Martin L. Howard, Columbia, South Carolina
- 447 DIAGNOSING SARCOIDOSIS  
Sheila D. Davis; Yahya M. Berkmen, New York  
Response—Robert J. Albin, Baltimore
- 448 BALLOON DILATION AND THE LASER  
Norman Slat, Cleveland

**NUMBER 2, AUGUST, 1989 (Supplement)**  
**Scientific Highlights, 55th Annual Scientific Assembly: Abstracts of Original Investigations**

**NUMBER 3, SEPTEMBER, 1989**

- 449 PEEP, AUTO-PEEP, AND WATERFALLS  
Martin J. Tobin; Robert F. Lodato, Houston
- 451 SCREENING FOR SLEEP APNEA?  
Adrian Williams; Silverio Santiago; Myron Stein, Los Angeles
- 453 ANTIBIOTIC STUDIES IN PNEUMONIA; PITFALLS IN INTERPRETATION AND SUGGESTED SOLUTIONS  
Joseph W. Chow; Victor L. Yu, Pittsburgh
- 456 BRONCHIAL INFUSION THERAPY (BIT); A BIT OF CAUTION  
Thomas E. Walsh, Bethesda
- 457 TUMOR NECROSIS FACTOR-A; A MULTIFACETED MEDIATOR OF INFLAMMATION  
Joseph P. Lynch III; Galen B. Toews, Ann Arbor
- 460 SEROSANGUINEOUS PLEURAL EFFUSIONS IN AIDS-ASSOCIATED KAPOSI'S SARCOMA  
Richard F. O'Brien; David L. Cohn, Denver
- 467 EFFICACY OF A PULSED OXYGEN DELIVERY DEVICE DURING EXERCISE IN PATIENTS WITH CHRONIC RESPIRATORY DISEASE  
Stephen Sahn; Jack Wanger; Enrique Fernandez; Reuben M. Cherniack, Denver
- 473 TREATMENT OF HEMOPTYSIS PATIENTS BY THROMBIN AND FIBRINOGEN-THROMBIN INFUSION THERAPY USING A FIBEROPTIC BRONCHOSCOPE



- Tomei Tsukamoto; Hideki Sasaki; Hidenori Nakamura, Yamagata, Japan
- 477 IMMEDIATE CHEST ROENTGENOGRAPHY FOLLOWING FIBEROPTIC BRONCHOSCOPY  
Michael G. Milam; A. Eden Evans; Steven A. Sahn, Charleston, South Carolina
- 480 RESPIRATION AND ABNORMAL SLEEP IN PATIENTS WITH CONGESTIVE HEART FAILURE  
Patrick J. Hanly; Thomas W. Millar; Darlene G. Stojles; Raquel Baert; Michael A. Frai; Meir H. Kryger, Winnipeg, Canada
- 489 ELECTROCARDIOGRAPHIC DIAGNOSIS OF REMOTE POSTERIOR WALL MYOCARDIAL INFARCTION USING UNIPOLAR POSTERIOR LEAD V<sub>9</sub>  
Michael W. Rich; Michael Imburgia; Thomas R. King; Keith C. Fischer; Kenneth L. Kovach, St. Louis
- 494 EFFECTS OF FENOSEMIDE ON PULMONARY SHUNTS  
George Balloopoulos; Spyros Zakynthinos; Athanasios Dimopoulos; Charis Roussos, Athens, Greece and Montreal, Canada
- 499 TREATMENT OF SEVERE HYPERTENSION WITH ATENOLOL AND BETAXOLOL WITH ONCE-DAILY REGIMENS  
Steven G. Chrysant; Catherine Chrysant; Iqbal Singh Bal; Joanna Trus; Anne Hitchcock, Oklahoma City
- 505 IMPORTANCE OF EVAPORATIVE WATER LOSSES DURING STANDARDIZED NEBULIZED INHALATION PROVOCATION TESTS  
Donald W. Cockcroft; Thomas S. Hurst; Brenda P. Gore, Saskatoon, Canada
- 509 BRONCHIAL FOREIGN BODY VS ASTHMA  
Suat Çağlayan; Salim Erkin; Isin Cotel; Haldun Oniz, Izmir, Turkey
- 512 HOSPITALIZATIONS FOR PULMONARY REACTIONS FOLLOWING NITROFURANTOIN USE  
Susan S. Jick; Hershel Jick; Alexander M. Walker, Boston; Judith R. Hunter, Seattle
- 516 FAMILIAL IGE DEFICIENCY ASSOCIATED WITH SINOPULMONARY DISEASE  
Joyce J. Schoettler; Leo A. Schleissner; Douglas C. Heiner, Torrance, California
- 522 NEW ASSESSMENT OF AIRWAY RESPONSIVENESS: EFFECT OF PRETREATMENT WITH PRO-CATEROL ON ALLERGEN-INDUCED BRONCHOCONSTRICTION  
Tamotsu Takishima; Osamu Taguchi; Wataru Hida; Hiroko Nogami; Yoshio Shimizu; Hiroshi Inoue, Sendai, Japan
- 528 SEQUENTIAL INTRAVENOUS-ORAL ADMINISTRATION OF CIPROFLOXACIN VS CEFOTAXIME IN SERIOUS BACTERIAL RESPIRATORY TRACT INFECTIONS  
Farouque A. Khan; Riyad Basir, East Meadow, New York
- 538 LOW-RISK LARGE-NEEDLE BIOPSY OF CHEST LESIONS  
Forrest Clore; Chat Virapongse; James Saterfield, Gainesville, Florida
- 542 LUNG COMPARTMENTALIZATION OF INCREASED TNF RELEASING ABILITY BY MONONUCLEAR PHAGOCYTES IN PULMONARY SARCOIDOSIS  
Mario Spatafora; Anna Merendino; Giuseppina Chiappara; Mark Gjomarkaj; Mario Melis; Vincenzo Bellia; Giovanni Bonsignore, Palermo, Italy
- 550 RELATIONSHIP BETWEEN INFLAMMATORY PROCESSES AND GAS EXCHANGES IN PULMONARY SARCOIDOSIS  
Jean-Benoit Martinot; Luc Delaunois; Jacques Rahier; Jean-Pierre Dehennin; Yves Sibille, Louvain, Belgium
- 557 COMPARISON OF TWO-MINUTE INCREMENTAL THRESHOLD LOADING AND MAXIMAL LOADING AS MEASURES OF RESPIRATORY MUSCLE ENDURANCE  
Gerard McElvaney; Mary Sue Fairbairn; Pearce G. Wilcox; Richard L. Pardy, Vancouver, Canada
- 564 APPLICABILITY OF A THRESHOLD LOADING DEVICE FOR INSPIRATORY MUSCLE TESTING AND TRAINING IN PATIENTS WITH COPD  
Roger Goldstein; Jim De Rose; Susan Long; Tom Dolmage; Monica A. Avendano, Toronto, Canada
- 572 ALMITRINE DECREASES THE DISTENSIBILITY OF THE LARGE PULMONARY ARTERIES IN MAN  
Philippe Herve; Dominique Musset; Gerald Simonneau; Wiltz Wagner, Jr; Pierre Durox, Paris, France
- 578 COORDINATION OF EATING, DRINKING AND BREATHING IN ADULTS  
John Smith; Norman Wolkove; Antoinette Colacone; Harvey Kreisman, Montreal, Canada
- 583 NEDOCROMIL SODIUM AND PLACEBO IN THE TREATMENT OF BRONCHIAL ASTHMA: A MULTICENTER, DOUBLE-BLIND, PARALLEL-GROUP COMPARISON  
Joel Greif; Gershon Fink; Yohoshua Smorzik; Marcel Topilsky; Israel Bruderman; Shimon A. Spitzer
- 589 SPEECH DYSFUNCTION OF OBSTRUCTIVE SLEEP APNEA: A DISCRIMINANT ANALYSIS OF ITS DESCRIPTORS  
Arthur W. Fox; Patricia K. Monson; C. Duane Morgan, Peoria and Normal, Illinois
- 596 CLINICAL SIGNIFICANCE OF NONSPECIFIC BRONCHIAL HYPERRESPONSIVENESS IN ASTHMA  
Sunil K. Chhabra; Shailendra N. Gaur; Ashwini K. Khanna, Delhi, India
- 601 DIASTOLIC TIME DURING LOW-LEVEL EXERCISE IN THE LATE PHASE OF HOSPITALIZATION FOR ACUTE MYOCARDIAL INFARCTION  
Tadashi Hasegawa; Tetsuro Sugiyama; Nobuyuki Takahashi; Toshiji Kwasaka; Mitsuo Inada; Osaka, Japan
- 606 INCREASED HYDROGEN PEROXIDE IN THE EXPIRED BREATH OF PATIENTS WITH ACUTE HYPOXEMIA RESPIRATORY FAILURE  
J. Iasha Szajder; Ana Fraiman; Jesse B. Hall; William Sanders; Gregory Schmidt; Gregory Crawford; Avi Nahum; Phillip Factor; Lawrence D. H. Wood, Chicago
- 613 DETERMINATION OF AUTO-PEEP DURING SPONTANEOUS AND CONTROLLED VENTILATION BY MONITORING CHANGES IN END-EXPIRATORY THORACIC GAS VOLUME  
Richard A. Hoffman; Patti Ershowsky; Bruce P. Krieger, Miami Beach
- 617 ACUTE NON-Q WAVE COCAINE-RELATED MYOCARDIAL INFARCTION  
Warren A. Kossowski; Alan F. Lyon; Shyan-Yih Chou, Brooklyn
- 622 IN-HOSPITAL CARDIOPULMONARY RESUSCITATION DURING ASYSTOLE: THERAPEUTIC FACTORS ASSOCIATED WITH 24-HOUR SURVIVAL  
Anthony J. Tortolani; Donald A. Risucci; Saul R. Powell; Roberta Dixon, Manhasset and New York City
- 627 FIBEROPTIC BRONCHOSCOPY IN THE EVALUATION OF ACUTE CHEST AND UPPER AIRWAY TRAUMA  
Kevin S. Hara; Udaya B. S. Prakash, Rochester, Minnesota
- 631 SAFE INTRAHOSPITAL TRANSPORT OF CRITICALLY ILL VENTILATOR-DEPENDENT PATIENTS  
John G. Weg; Carl F. Haas, Ann Arbor
- 636 HEART FAILURE AND ABNORMAL VENTRICULAR FUNCTION: PATHOPHYSIOLOGY AND CLINICAL CORRELATION (PART I)  
Clarence Shub, Rochester, Minnesota
- 641 ARE AIDS PATIENTS AT RISK FOR PULMONARY ALVEOLAR PROTEINOSIS?  
Robert H. Israel; C. Richard Magnusson, Rochester, New York
- 643 CLINICAL IMPLICATIONS OF NUCLEAR MAGNETIC RESONANCE LUNG RESEARCH  
Antonio G. Cuttito; Alan H. Morris; David C. Allion; Carl H. Durney, Salt Lake City
- 653 ST ELEVATION DURING EXERCISE TESTING  
Farshad J. Nosratin, Victor F. Froelicher, Long Beach, California
- 655 LITHOPTYSIS IN A MARATHON RUNNER  
James F. Morris; Ruza Antonovic; William T. Galey, Portland, Oregon; Vinod Khanjio, Roseburg, Oregon
- 657 BILATERAL CAVITARY LUNG DISEASE IN A 29-YEAR-OLD WOMAN  
James A. MacLean; David H. Eidelman; Ruth Horn; Robert D. Levy, Montreal, Canada
- 659 APPROACH TO THE DIAGNOSIS AND TREATMENT OF PULMONARY HYPERTENSION  
Lewis J. Rubin, Baltimore
- 665 AZELASTINE INHIBITS AGONIST-INDUCED ELECTROMECHANICAL ACTIVITY IN CANINE TRACHEAL MUSCLE  
Hye-Kyung Lee; Nick Sperelakis, Cincinnati
- 670 NAILING DOWN ARSENIC INTOXICATION  
Glenn D. Goldstein, Marvin I. Dunn, Kansas City, Kansas
- 672 CHARCOAL LUNG; BRONCHIOLITIS OBLITERANS AFTER ASPIRATION OF ACTIVATED CHARCOAL  
Charles G. Elliott; Thomas V. Colby; Thomas M. Kelly; Harry G. Hicks
- 674 PERSISTING HYPEREOSINOPHILIA AND MYOCARDIAL ACTIVITY IN THE FIBROTIC STAGE OF ENDOMYOCARDIAL DISEASE  
Andreas Frustaci; Abdel Kadir Abdulla; Gianfederico Possati; Ugo Manzoli
- 676 COR TRIATRIUM MASKED BY COEXISTING COPD IN AN ADULT  
Wing-Hung Leung; Cheuk-Kit Wong; Chu-Pak Lau; Chun-Ho Cheng, Hong Kong
- 678 INTERRUPTED AORTIC ARCH IN AN ASYMPTOMATIC ADULT  
Cheuk-Kit Wong; Chun-Ho Cheng; Chu-Pak Lau; Wing-Hung Leung; Fu-Luk Chan, Hong Kong
- 679 AIRWAY PRESSURE RELEASE VENTILATION IN A PATIENT WITH ACUTE PULMONARY INJURY  
Orlando G. Florete, Jr; Michael J. Banner; Tina E. Banner; Julio C. Rodriguez; Robert R. Kirby, Gainesville, Florida
- 682 RECURRENT ACUTE PULMONARY EMBOLI IN ASSOCIATION WITH ACUTE MYOCARDIAL INFARCTION  
Djahangir J. Ahdout, Irvine; Prabodh M. Damani; L. Barry Ullian, Trenton
- 684 TRAUMATIC STERNAL SEGMENT DISLOCATION IN A CHILD  
Satoshi Watanabe; Tatsuo Nakamura; Yasuhiko Shimizu; Shigeki Hitomi; Yoshito Ikada, Kyoto, Japan
- 686 PLEUROPERITONEAL SHUNT FOR PNEUMONECTOMY CAVITY MALIGNANT EFFUSION  
Alan R. Pope; J. Harris Joseph, Philadelphia
- 688 PREVIOUSLY UNREPORTED ADVERSE REACTION TO ENCAINIDE  
Rajitha Goli-Bijanki; Chandra K. Nair; Nigar Nair; Michael H. Sketch, Sr, Omaha
- 689 RESPIRATORY MUSCLE FATIGUE FROM FUNCTIONAL UPPER AIRWAY OBSTRUCTION  
James I. Couser, Jr; Jeffrey S. Berman, Boston
- 691 CONSTRUCTIVE PERICARDITIS WITH ELECTROCARDIOGRAPHIC EVIDENCE OF RIGHT VENTRICULAR HYPERTROPHY  
Keiichi Fukuda; Yoshiro Nakamura; Satoshi Ogawa; Hirokazu Yokoyama; Shunnosuke Handa, Tokyo, Japan
- 693 MILIARY PCP IN AIDS  
Larry S. Wasser; Elliot Brown; Wilfredo Talavera, New York City
- 695 HYDROCHLOROTHIAZIDE-ASSOCIATED PULMONARY EDEMA  
Todd J. Anderson; Yves Berthiaume; David Matheson; Paul Boiteau, Calgary, Canada
- 698 FOREIGN BODY ASPIRATE EXTRACTION  
H. Nufiez; E. Pérez Rodríguez; C. Alvarado; C. Vergara; A. Golpe; S. Dominguez Reboiras; J. Zapatero, Madrid, Spain
- Response—Dov Weissberg, Holon, Israel
- 698 INSPIRATORY RESISTANCE TRAINING FOR PULMONARY REHABILITATION  
Janet Beacham; Stuart M. Barnes; William Walker; H. G. Morse, Anderson, South Carolina
- 699 HEMOPTYSIS DUE TO LV PSEUDOANEURYSM  
Norma Boone Goldberg, North Chicago; Marc Van Drunen, Chicago
- Response—Avanindra Jain, Chapel Hill
- 700 LIDOCAINE CONCENTRATIONS IN ENDOBRONCHIAL ASPIRATES DURING FLEXIBLE FIBEROPTIC BRONCHOSCOPY  
Hideo Kato; Hajime Goto; Kazumi Yuasa; Ruyji Ieki; Kaoru Shimada, Tokyo, Japan
- 700 RESPONSE OF NASAL (AND POSSIBLY BRONCHIAL) VASCULATURE TO PHYSICAL EXERCISE  
N. C. Syabbalo, Transkei, Southern Africa
- 701 ASBESTOS IN LUNG CANCER  
Jerrold L. Abraham, Syracuse
- Response—Takumi Kishimoto, Kure City, Japan
- 702 DIAGNOSING THYMIC NEOPLASIA  
Robert R. Miller, Vancouver, Canada
- Response—Hisao Asamura; Yukio Shimomoto, Tokyo, Japan
- 703 TREATING PLEURAL EFFUSION  
Joseph M. Miller, Baltimore
- 703 PHYSICAL ACTIVITY AFTER VIRAL ILLNESS  
John Rudolf, Palmyra, Pennsylvania
- 703 WEIGHT LOSS IN SLEEP APNEA  
Christian Guilleminault, Stanford, California

- Additional commentary—Harvey J. Sugerman, Richmond, Virginia  
Response—Jeffrey Nahmias; Monroe Karetzky, Newark
- 704 RIGHT VENTRICULAR VOLUME ASSESSMENT; AN ALTERNATIVE PERSPECTIVE  
Douglass A. Morrison, Denver  
Response—Richard K. Albert, Seattle
- 705 CF AND EMPHYSEMA  
Clarke McIntosh, Birmingham, Alabama  
Response—Mark D. Wewers, Columbus, Ohio
- 706 DRUG ABUSE AND ANEURYSM  
David Lee Scher, Philadelphia
- 706 ERRATUM

# NUMBER 3, SEPTEMBER, 1989 (Supplement)

- 301S INTRODUCTION  
John F. Murray, San Francisco
- 302S EPIDEMIOLOGY OF CHRONIC AIRWAYS DISEASE  
Ann J. Woolcock, Sydney, Australia
- 307S SMOKING AS A RISK FACTOR FOR CHRONIC AIRWAYS DISEASE  
John Crofton, Edinburgh, Scotland; Kjell Bjartveit, Oslo, Norway
- 313S ACUTE RESPIRATORY INFECTIONS AS RISK FACTORS FOR CHRONIC AIRWAYS DISEASE  
A. Sonia Buist, Portland, Oregon
- 314S ASTHMA AS A RISK FACTOR FOR CHRONIC AIRWAYS DISEASE  
A. Sonia Buist, Portland, Oregon
- 316S POLLUTION (ATMOSPHERIC, DOMESTIC, AND OCCUPATIONAL) AS A RISK FACTOR FOR CHRONIC AIRWAYS DISEASE  
Jacques Chrétiën, Paris, France
- 318S CHRONIC AIRWAYS DISEASE IN THE UNITED KINGDOM  
Walter W. Holland, London, England
- 321S EPIDEMIOLOGY OF CHRONIC BRONCHITIS IN THE BALTIC REPUBLICS OF THE USSR  
V. V. Utkin; I. N. Stepanov; P. A. Shnipas, L. E. Yarnus; G. B. Gintere, Riga, USSR
- 324S CHRONIC AIRWAYS DISEASE IN POLAND; RECENT TRENDS  
Bogdan Wojtyniak; Mirosław Wysocki, Warsaw, Poland
- 328S CHRONIC AIRWAYS DISEASE IN THE UNITED STATES  
Millicent W. Higgins, Ann Arbor
- 334S ASTHMA AND CHRONIC BRONCHITIS IN AFRICA; EVIDENCE FROM EPIDEMIOLOGIC STUDIES  
Pierre Chaulet, Algiers, Algeria
- 339S EPIDEMIOLOGIC STUDIES OF CHRONIC RESPIRATORY DISEASES IN SOME REGIONS OF CHINA  
Bi-ya Yan, Beijing, China
- 343S EPIDEMIOLOGY OF CHRONIC AIRWAYS DISEASE IN JAPAN  
Masakazu Aoki, Tokyo, Japan
- 349S CHRONIC AIRWAYS DISEASE: THE SMOKING COMPONENT  
Sir John Crofton, Roberto Masironi, Edinburgh, Scotland
- 355S ACUTE RESPIRATORY INFECTIONS  
John R. T. Colley, David L. Miller, Bristol, England
- 361S RISK FACTORS AND PREVENTION STRATEGIES FOR ASTHMA  
Peter T. Macklem, Montreal, Canada
- 363S ATMOSPHERIC POLLUTION  
Robert E. Waller, London, England
- 368S DOMESTIC POLLUTION AS A FACTOR CAUSING RESPIRATORY HEALTH EFFECTS  
Jan S. M. Boleji, Bert Brunekreef, Wageningen, The Netherlands
- 372S OCCUPATIONAL POLLUTION  
Margaret R. Becklake, Montreal, Canada
- 378S PARTICIPANTS

# NUMBER 4, OCTOBER, 1989

- 707 THE OTHER LUNG—REVISITED  
Joel D. Cooper, St. Louis
- 708 ENCITEMENTS FOR FRUITLESS BRONCHOSCOPY  
Jay J. Rohwedder, Phoenix

- 710 BRONCHOSCOPY; ENOUGH OR TOO MUCH?  
Ronald Paul Sen; Thomas E. Walsh, Bethesda
- 712 THE TIMING OF TRACHEOTOMY; AN EVOLVING CONSENSUS  
Michael J. Bishop, Seattle
- 713 AEROSOLIZED PENTAMIDINE FOR PNEUMOCYSTIS CARINII PNEUMONIA  
John M. Luce; Philip C. Hopewell, San Francisco
- 714 INTENSIVE CARE FOR PATIENTS WITH PNEUMOCYSTIS CARINII PNEUMONIA AND RESPIRATORY FAILURE; ARE WE PREPARED FOR OUR NEW SUCCESS?  
Robert M. Wachter, John M. Luce, San Francisco
- 716 NOCTURNAL HYPOXEMIA IN SLEEP APNEA  
Larry J. Findley, Charlottesville
- 717 THE RATE OF FALL OF ARTERIAL OXYHEMOGLOBIN SATURATION IN OBSTRUCTIVE SLEEP APNEA  
Eugene C. Fletcher; Constantino Costarangos; Trey Miller, Houston
- 723 KAPOSI'S SARCOMA; CT-RADIOGRAPHIC CORRELATION  
David P. Naidich; Mark Tarras; Stuart M. Garay; Bernard Birnbaum; Benito J. Rybak; Roger Schinella, New York
- 729 PULMONARY HYPERTENSION, HYPOXEMIA, AND HYPERCAPNIA IN OBSTRUCTIVE SLEEP APNEA PATIENTS  
Jean Krieger; Emilia Sforza; Michel Apprill; Eliane Lampert; Emmanuel Weitzenblum; Julia Ratomaharo, Strasbourg, France
- 738 SINGLE LUNG TRANSPLANTATION FOR SEVERE CHRONIC OBSTRUCTIVE PULMONARY DISEASE  
Elbert P. Trulock; Thomas M. Egan; Nicholas T. Kouchoukos; Larry R. Kaiser; Michael K. Pasque; Neil Ettinger; Joel C. Cooper; and the Washington University Lung Transplant Group, St. Louis
- 743 HERITABILITY ESTIMATES OF PULMONARY FUNCTION  
Andrew J. Ghio; Robert O. Crapo; C. Gregory Elliott; Ted D. Adams; Steven C. Hunt; Robert L. Jensen; A. Garth Fisher; Gregg H. Altman, Salt Lake City and Provo
- 747 CONSISTENCY OF RESPIRATORY MEASUREMENTS FROM NIGHT TO NIGHT DURING THE SLEEP OF ELDERLY MEN  
William R. Aber; A. Jay Block; Donald W. Hellard; Wise B. Webb, Gainesville, Florida
- 752 PULMONARY GAS EXCHANGE DURING HISTAMINE-INDUCED BRONCHOCONSTRICTION IN ASTHMATIC SUBJECTS  
Thomas V. Burke; Markus Kung; Nausherwan K. Burki, Lexington, Kentucky
- 757 EXTRACORPOREAL CIRCULATION INFLUENCE ON PLASMA ATRIAL NATRIURETIC PEPTIDE CONCENTRATION IN CARDIAC SURGERY PATIENTS  
Hideo Asari; Hisayoshi Kondo; Akira Ishihara; Kenji Ando; Fumiaki Marumo, Tokyo, Japan
- 761 EFFECT OF NALOXONE ON MAXIMAL EXERCISE PERFORMANCE AND CONTROL OF VENTILATION IN COPD  
James L. Kirsch; Jesse R. Muro; David W. Stansbury; Claudia E. Fischer; Rosene Monflore; Richard W. Light, Long Beach and Irvine, California
- 767 MEASUREMENT OF RESPIRATORY SENSATION IN INTERSTITIAL LUNG DISEASE; EVALUATION OF CLINICAL DYSPNEA RATINGS AND MAGNITUDE SCALING  
Donald A. Mahler, Hanover, NH; Andrew Harver, Stony Brook, NY; Richard Rosiello, Worcester, MA; J. Andrew Daubenspeck, Hanover, NH
- 772 DOXYFYLIN AND RESPIRATORY MECHANICS; SHORT-TERM EFFECTS IN MECHANICALLY VENTILATED PATIENTS WITH AIRFLOW OBSTRUCTION AND RESPIRATORY FAILURE  
Roberta Poggi; Renato Brandolese; Mara Bernasconi; Ennio Manzini; Andrea Rossi, Padua, Italy
- 779 COMPUTERIZED TOMOGRAPHIC DENSITOMETRY OF THE SOLITARY PULMONARY NODULE USING A NODULE PHANTOM  
Frederick A. Jones; Herbert P. Wiedemann; Peter B. O'Donovan; James K. Stoller, Cleveland
- 784 PULMONARY VASODILATION WITH PROSTACYCLIN IN PRIMARY AND SECONDARY PULMONARY HYPERTENSION  
Kevin Jones; Tim Higenbottam, John Wallwork,

- Cambridge, England
- 790 UNEXPECTED, UNEXPLAINED SUDDEN DEATH IN YOUNG ASTHMATIC SUBJECTS  
Eugene D. Robin; Norman Lewiston, Stanford and Trinidad, California
- 794 ASSOCIATION OF ACTIVATED CYTOLYTIC LUNG LYMPHOCYTES WITH RESPONSE TO PREDNISONE THERAPY IN PATIENTS WITH IDIOPATHIC PULMONARY FIBROSIS  
Jill P. Karpel; Allen J. Norin, Bronx, New York
- 799 LOCAL PULMONARY VENTILATION USING NON-RADIOACTIVE XENON-ENHANCED ULTRAFAST COMPUTED TOMOGRAPHY  
David M. F. Murphy; John T. Nicewicz; Salvatore M. Zabbatino; Roger A. Moore, Browns Mills, NJ
- 805 UNSUSPECTED CARDIAC ABNORMALITIES IN THE ACQUIRED IMMUNE DEFICIENCY SYNDROME; AN ECHOCARDIOGRAPHIC STUDY  
Susan R. Hecht; Marvin Berger; Andrew Van Tosh; Scott Croxson, New York
- 809 EFFECT OF SALBUTAMOL, IPRATROPIUM BROMIDE AND CROMOLYN SODIUM ON PROSTAGLANDIN F<sub>2</sub>-INDUCED BRONCHOSPASM  
Dimitris Georgopoulos; Dimitris Giulekas; George Ikonidis; Lazaros Sichelidis, Thessaloniki, Greece
- 815 THE TUBERCULOSIS CLINIC  
Mary Jo Werhane; Gail Snukst-Torbeck; Dean E. Schraufnagel, Chicago
- 819 A LONGITUDINAL STUDY OF PULMONARY FUNCTION IN COTTON GIN WORKERS IN THE SAN JOAQUIN VALLEY  
Roger K. Larson; Martin L. Barman, San Francisco
- 824 NEURAL RESPIRATORY DRIVE AND NEUROMUSCULAR COUPLING DURING CO<sub>2</sub> RE-BREATHING IN PATIENTS WITH CHRONIC INTERSTITIAL LUNG DISEASE  
Massimo Gorini; Alessandro Spinelli; Roberto Giannini; Roberto Duranti; Francesco Gigliotti; Paolo Arcangeli; Giorgio Scano, Florence, Italy
- 831 PRIMARY STREPTOCOCCUS VIRIDANS PNEUMONIA  
Tapan K. Sarkar; Radhey S. Murarka; Gerald L. Giliardi, New York
- 835 HIGH INCIDENCE OF PULMONARY TUBERCULOSIS IN THE NON-HIV INFECTED IMMUNOCOMPROMISED PATIENT IN HONG KONG  
Jane C. Chan; Shun-Yang So; Wah Kit Lam; Mary S. M. Ip, Hong Kong
- 840 JOGGING IN PLACE; EVALUATION OF A SIMPLIFIED EXERCISE TEST  
Nicolao Papazoglou; Eleni Kolokouri-Dervou; Ioannis Fanourakis; Pantelis Natsis; Paraskevi Koutsiouba, Athens and Pireaus, Greece
- 843 CIRRHOSIS OF THE LIVER SIMULATING CONGENITAL CYANOTIC HEART DISEASE  
Ramesh C. Hansoti; Satyavan Sharma, Bombay, India
- 849 AN EARLY TEST OF SURVIVAL IN PATIENTS WITH THE ADULT RESPIRATORY DISTRESS SYNDROME: THE PAO<sub>2</sub>/FIO<sub>2</sub> RATIO AND ITS DIFFERENTIAL RESPONSE TO CONVENTIONAL THERAPY  
Roger C. Bone; Richard Maunders; Gus Slotman; Henry Silverman; Thomas M. Hyers; Morris D. Kerstein; Joseph J. Ursprung; and the Prostaglandin E<sub>2</sub> Study Group
- 852 PULMONARY COMPLICATIONS AFTER TRICYCLIC ANTIDEPRESSANT OVERDOSE  
Thomas M. Roy; Miguel A. Ossorio; Lisa M. Cippola; Cheryl L. Fields; Harry L. Snider; William H. Anderson, Louisville
- 857 PROGNOSIS OF PATIENTS WITH AIDS REQUIRING INTENSIVE CARE  
Robert L. Smith; Stephanie M. Levine; Milena L. Lewis, New York
- 862 IMPROVED SURVIVAL IN PATIENTS WITH AIDS, PNEUMOCYSTIS CARINII PNEUMONIA, AND SEVERE RESPIRATORY FAILURE  
Yaakov Friedman; Cory Franklin, Eric C. Hackow; Max Harry Weil, North Chicago
- 867 ENERGY EXPENDITURE ASSOCIATED WITH CPAP AND T-PIECE SPONTANEOUS VENTILATORY TRIALS  
D. L. Swinamer; L. M. Fedoruk; R. L. Jones; W. D. N. Chin; P. T. Phang; S. M. Hamilton; E. G. King, Edmonton, Canada
- 873 EFFECT OF STERNOTOMY AND CORONARY BYPASS SURGERY ON POSTOPERATIVE PUL-

- MONARY MECHANICS; COMPARISON OF INTERNAL MAMMARY AND SAPHENOUS VEIN BY-PASS GRAFTS  
Luis D. Bernzbelia; Sidney Tessler; Israel J. Jacobowitz; Paul Kaplan; Linda Budziewicz; Joseph N. Cunningham, Brooklyn
- 877 LARYNGEAL COMPLICATIONS OF PROLONGED INTUBATION  
Gene L. Colice; Therese A. Stukel; Bradley Dain, White River Junction, Vermont
- 885 MECHANISMS OF MULTIPLE NONPULMONARY ORGAN FAILURE IN ARDS  
Paul M. Dorinsky; James E. Gadek, Columbus, Ohio
- 893 NEW CONCEPTS IN THE PATHOGENESIS AND MODALITIES OF THE CHEMOPROPHYLAXIS OF NATIVE VALVE ENDOCARDITIS  
Arnold S. Bayer, Torrance and Los Angeles
- 900 TREATMENT FOR PRIMARY PULMONARY HYPERTENSION; BACK TO THE FUTURE  
John E. McManis; Michael F. Tenholder, Washington, DC and Bethesda
- 906 HEART FAILURE AND ABNORMAL VENTRICULAR FUNCTION: PATHOPHYSIOLOGY AND CLINICAL CORRELATION (PART 2)  
Clarence Shub, Rochester, Minnesota
- 915 DIFFUSE PULMONARY INFILTRATES FOLLOWING LYMPHOGRAPHY  
Douglas P. Tapper; James R. Taylor, Stanford
- 917 ADAM'S ANTIPOLE  
Thera P. Links; Pieter E. Postmus, Groningen, The Netherlands
- 919 BRONCHOSCOPIC LOCALIZATION AND TREATMENT OF OCCULT LUNG CANCER  
Eric S. Edell; Denis A. Cortese, Rochester, Minnesota
- 922 CARDIAC ARREST POSTOPERATIVELY IN A PATIENT INFECTED WITH ASCARIS, THE ROUNDWORM  
John P. Nicholson; Karl Kreiger; Barry Hartman; Wayne Isom; John H. Laragh, New York
- 924 A RED HOT STERNAL MASS  
Matthew J. McCarty; Warren L. Whitlock; Robert A. Dietrich, San Francisco
- 927 PULMONARY CAPILLARITIS AND HEMORRHAGE; A CLUE TO THE DIAGNOSIS OF SYSTEMIC NECROTIZING VASCULITIS  
Elaine M. Imoto; Charles M. Lombard; David P. L. Sachs, Stanford
- 929 SMALL LYMPHOCYTIC PULMONARY LYMPHOMA; DIAGNOSIS BY TRANSTHORACIC FINE NEEDLE ASPIRATION  
Robert I. Sprague; George G. deBlois, Richmond, Virginia
- 931 FROM SUBCLINICAL ALVEOLITIS TO GRANULOMATOSIS; SEQUENTIAL EVALUATION OF PULMONARY INVOLVEMENT IN EXTRATHORACIC SARCOIDOSIS  
Mario Dugas; Benoit Wallaert; André-Bernard Tonnel; Cyr Voisin, Lille, France
- 934 ENDOMYOCARDIAL INVASION BY ESOPHAGEAL CARCINOMA; DEMONSTRATION BY ECHOCARDIOGRAPHY  
George K. Brodell; William A. Schiavone; Robert Finkelhof, Cleveland
- 935 DIAGNOSIS OF GASTROBRONCHIAL FISTULA BY MEASUREMENT OF BRONCHIAL SECRETION pH  
John T. Joseph; Peter E. Krumpel; Martinez, California
- 937 DIRECT COMMUNICATION BETWEEN LEFT PULMONARY ARTERY AND LEFT ATRIUM  
Ashok Manohar Kamik; Ulf Nilsson; Govindan Vijayaraghavan; Jamil Hashmi, Safat, Kuwait
- 939 RAPID RESOLUTION OF ACUTE CORPULMONALE WITH RECOMBINANT TISSUE PLASMINOGEN ACTIVATOR  
Joel M. Gore; Michael J. Thompson; Richard C. Becker, Worcester, MA
- 941 EVALUATION OF AN INACCURATE PULMONARY ARTERY CATHETER THERMISTOR  
John I. Gotshall; Lynn Comried; Greg Bredlau; Oppe L. Moseley, Iowa City
- 943 FACE-MASK CPAP AND SODIUM BICARBONATE INFUSION IN ACUTE, SEVERE ASTHMA AND METABOLIC ACIDOSIS  
J. Keith Mansel; Steven W. Stogner; Joe R. Norman, Jackson, Mississippi
- 945 MYXOMA WITH A LEFT-TO-LEFT SHUNT AND FISTULA  
Philippe G. Jorens; Paul A. Van Den Heuvel; Philip A. Van Cauwelaert; Gaston A. Parizel, Antwerp, Belgium
- 946 SUCCESSFUL NOVEL DRAINAGE TREATMENT OF MEDIASTINAL ABSCESS COMPLICATING TRACHEOSTOMY  
Chattrchai Watanakunakorn, Youngstown and Rootstown, Ohio
- 948 CYTOLOGIC DIAGNOSIS OF PULMONARY HODGKIN'S DISEASE VIA ENDOBRONCHIAL BRUSH PREPARATION  
Ami-Hai E. Rubin; Menachem Ben-Shachar; Ehud Malberger, Haifa, Israel
- 949 PNEUMOCYSTIS HEPATITIS AND CHORIOIDITIS DESPITE SUCCESSFUL AEROSOLIZED PENTAMIDINE PULMONARY PROPHYLAXIS  
William A. Hagopian; John S. Huseby, Seattle
- 952 X-RAY FILMS AND ASBESTOSIS  
Alois David, Geneva, Switzerland  
Response—S. David Rockoff, A. Schwartz, Washington, D.C.
- 953 SENSITIVITY OF ARTERIAL BLOOD GAS ANALYSES  
William M. Kufs, San Francisco
- 953 DISCHARGING OF ASTHMA PATIENTS  
Thomas F. Plaut, Amherst, Massachusetts  
Additional commentary—Michael T. Newhouse, Hamilton, Canada  
Response—Thomas F. Morley, Stratford, New Jersey
- 955 POTT'S DISEASE  
Raul Cicero Sabido, Mexico City, Mexico  
Additional commentary—D. A. Enarson, Edmonton, Canada  
Response—Ronald J. Nelson, Los Angeles
- 956 CONTINUOUS MONITORING OF O<sub>2</sub> SATURATION  
Loren D. Nelson, Nashville  
Response—Jeffrey V. Kuff, Detroit
- 957 PULMONARY ARTERY CATHETERIZATION  
Daniel M. Raybin, San Francisco  
Response—David H. Spodick, Worcester, Massachusetts
- 957 WILD BOARS AND PULMONARY PARAGONIMIASIS  
Hiroshi Kawane, Kurashiki City, Japan  
Response—Om P. Sharma, Los Angeles
- 958 THEOPHYLLINE-INDUCED VENTRICULAR TACHYCARDIA IN A PATIENT WITH CHRONIC LUNG DISEASE  
Akihiko Taniguchi; Tohru Ohe; Katsuro Shimomura, Osaka, Japan
- 959 HISTORY OF OXYGEN  
John Salyer, Cleveland  
Response—Claude L. Zanetti, Chicago
- 959 TRACHEAL TRAUMA  
Mark R. Katic; Wilkes-Barre, Pennsylvania
- 959 CRYOSURGERY, ELECTROCAUTERY AND THE LASER  
J. P. Homasson, Chevilly-Larve, France  
Additional commentary—Stanley M. Shapshay, Burlington, Massachusetts  
Response—S. Cavaliere, Brescia, Italy
- 960 ANTINUCLEAR ANTIBODIES ASSOCIATED WITH PULMONARY INVOLVEMENT IN SYSTEMIC SCLEROSIS  
Erasmio Martinez-Cordero, Mexico City, Mexico
- 961 TUBERCULOSIS SCREENING IN 1,161 ELDERLY PATIENTS  
Wilbert S. Aronow; Harrison G. Bloom, Bronx, New York
- 962 TRANSESOPHAGEAL DOPPLER TO EVALUATE AORTIC BLOOD FLOW  
Pascal Colson; Jacques Seguin; Bernard Roquefeuil; Paul-Andre Chaptal, Montpellier, France
- 962 ERRATUM  
Daniel Deykin, Boston
- 965 LIDOCAINE TOPICAL ANESTHESIA FOR FLEXIBLE BRONCHOSCOPY  
Michael B. Kirkpatrick, Mobile, Alabama
- 967 THE CONCEPT OF "ORGANIZING PNEUMONIA"  
Stephen B. Sulavik, Farmington, Connecticut
- 969 PROGESTINS AND VENTILATORY STIMULATION  
James B. Skatrud, Madison, Wisconsin
- 970 TEN-YEAR SURVIVAL AFTER ESOPHAGECTOMY FOR CARCINOMA; SURGICAL TRIUMPH OR BIOLOGIC VARIATION?  
Mark B. Orringer, Ann Arbor
- 972 VISUALIZATION OF CORONARY BLOOD FLOW BY COLOR DOPPLER IMAGING WITH A TRANSESOPHAGEAL APPROACH  
Masakazu Yamagishi; Kunio Miyatake; Shintaro Beppu; Norio Tanaka; Yasuharu Nimura, Osaka, Japan
- 976 VENTILATION-PERFUSION DISTRIBUTIONS AND CENTRAL HEMODYNAMICS IN CHRONIC OBSTRUCTIVE PULMONARY DISEASE; EFFECTS OF TERBUTALINE ADMINISTRATION  
Charlotte V. Ringsted; Kirsten Eliassen; Jens B. Andersen; Lars Heslet; Jesper Qvist, Herlev, Denmark
- 984 CHOLINERGIC BRONCHOMOTOR TONE IN COPD; ESTIMATES OF ITS AMOUNT IN COMPARISON WITH THAT IN NORMAL SUBJECTS  
Nicholas J. Gross; Evangeline Co; Morton S. Skoldin, Maywood, Illinois
- 988 BRONCHIAL HYPERRESPONSIVENESS IN ASTHMATIC CHILDREN; CORRELATION WITH MACROPHAGES AND EOSINOPHILS IN BRONCHOLAVAGE FLUID  
Alexander C. Ferguson; Frances W. M. Wong, Vancouver, Canada
- 992 PROBABILITY OF MALIGNANCY IN PLEURAL FLUID EOSINOPHILIA  
Max Kuhn; Jean-Willi Fitting; Philippe Leuenberger, Lausanne, Switzerland
- 995 ESOPHAGEAL ACID PERFUSION, AIRWAY FUNCTION, AND SYMPTOMS IN ASTHMATIC PATIENTS WITH MARKED BRONCHIAL HYPERREACTIVITY  
Tommy Ekström; Lita Tibbling, Linköping, Sweden
- 999 IDIOPATHIC BRONCHIOLITIS OBLITERANS ORGANIZING PNEUMONIA; DEFINITION OF CHARACTERISTIC CLINICAL PROFILES IN A SERIES OF 16 PATIENTS  
Jean-François Cordier; Robert Loire; Jean Brune, Lyon, France
- 1005 PARAMETERS LINKED TO TEN-YEAR SURVIVAL IN JAPAN OF RESECTED ESOPHAGEAL CARCINOMA  
Japanese Committee for Registration of Esophageal Carcinoma Cases: Toshikuni Iizuka; Kaichi Isono; Tetsuo Kagegawa; Hiroshi Watanabe
- 1012 LIDOCAINE-INDUCED BRONCHOCONSTRICTION IN ASTHMATIC PATIENTS; RELATION TO HISTAMINE AIRWAY RESPONSIVENESS AND EFFECT OF PRESERVATIVE  
Lawrence G. McAlpine; Neil C. Thomson, Glasgow, Scotland
- 1016 ELEVATED BAL FLUID HISTAMINE LEVELS AND PARENCHYMAL PULMONARY DISEASE IN RHEUMATOID ARTHRITIS  
Thomas B. Casale; Marta M. Litte; Daniel Furst; Douglas Wood; Gary W. Hunninghake, Iowa City
- 1022 NODULAR PULMONARY OPACITIES IN PATIENTS WITH RHEUMATOID ARTHRITIS; A DIAGNOSTIC DILEMMA  
Howard Jolles; Pope L. Moseley; Michael W. Peterson, Iowa City
- 1026 ASSESSMENT OF LEFT VENTRICULAR FUNCTION USING RADIONUCLIDE ANGIOGRAPHY AFTER DIPYRIDAMOLE INFUSION  
Ciro Indolfi; Sandro Betocchi; Federico Piscione; Pasquale Perrone-Filardi; Marco Salvatore; Massimo Chiariello, Naples, Italy
- 1031 DELAYED REDISTRIBUTION IN THALLIUM 201 SPECT MYOCARDIAL PERFUSION STUDIES  
Harvey A. Ziessman; John W. Keyes, Jr.; Lay M. Fox; Curtis E. Green; Samuel M. Fox, Washington, DC
- 1036 VOLUME ADJUSTMENT OF MECHANICS AND DIFFUSION IN INTERSTITIAL LUNG DISEASE; LACK OF CLINICAL RELEVANCE  
Lisa C. Kanengiser; David M. Rapoport; Hadassah Epstein; Roberta M. Goldring, New York
- 1043 ASSESSMENT OF ROUTINE CHEST ROENT-

#### NUMBER 5, NOVEMBER, 1989

- 963 DOES INTRAESOPHAGEAL ACID TRIGGER BRONCHIAL ASTHMA? NO, BUT MAYBE YES!  
Lawrence F. Johnson, Bethesda; Krishnan R. Rajagopal, Washington, DC
- 964 BASELINE AIRWAY CALIBER; A CONFOUNDER IN INTERPRETING BRONCHOCONSTRICTION AND BRONCHODILATION  
Peter D. Paré; B. J. Wiggs, Vancouver, Canada



# GENOGRAMS AND THE PHYSICAL EXAMINATION TO CONFIRM ENDOTRACHEAL TUBE POSITION

- Wiley Brunel; Diana L. Coleman; David E. Schwartz; Eric Peper; Neal H. Cohen, San Francisco
- 1046 OCCUPATIONAL ASTHMA DUE TO VARIOUS AGENTS: ABSENCE OF CLINICAL AND FUNCTIONAL IMPROVEMENT AT AN INTERVAL OF FOUR OR MORE YEARS AFTER CESSATION OF EXPOSURE  
Christian Allard; André Cartier; Heberto Ghezzi; Jean-Luc Malo, Montreal, Canada
- 1050 PULMONARY ARTERY MEDIAL HYPERTROPHY IN COCAINE USERS WITHOUT FOREIGN PARTICLE MICROEMBOLIZATION  
Richard J. Murray; John E. Smialek; Mario Golle; Robert J. Albin, Baltimore
- 1054 SLEEP APNEA IN FEMALE PATIENTS IN A NURSING HOME: INCREASED RISK OF MORTALITY  
Sonia Ancoli-Israel; Melville R. Klauber; Daniel Kripke; Linda Parker; Marta Cobarubias, San Diego
- 1059 HYPOTHYROIDISM: A REVERSIBLE CAUSE OF DIAPHRAGMATIC DYSFUNCTION  
Fernando J. Martinez; Mary Bermudez-Gomez; Bartolome R. Celi, Boston
- 1064 HEMODYNAMIC DISTURBANCES AND V<sub>A</sub>/Q MATCHING IN HYPOXEMIC CIRRHOTIC PATIENTS  
Yves Castaing; Gérard Manier, Bordeaux, France
- 1070 EFFECT OF PLATELET-ACTIVATING FACTOR INHALATION ON NONSPECIFIC BRONCHIAL REACTIVITY IN MAN  
Russell J. Hopp; Agnindra K. Bewtra; Devendra K. Agrawal; Robert G. Townley, Omaha
- 1073 RESPIRATORY EFFECT OF SYNTHETIC PROGESTIN IN SMALL DOSES IN NORMAL MEN  
Makoto Mikami; Koichiro Tatsumi; Hiroshi Kimura; Yoshiyuki Honda; Takayuki Kuriyama, Chiba, Japan
- 1076 EXERCISE RESPONSE IN YOUNG WOMEN WITH MITRAL VALVE PROLAPSE  
Yaakov Drory; Enrique Z. Fisman; Amos Pines; Jan J. Kellermann, Tel Hashomer, Israel
- 1081 INCREASE OF ALVEOLAR PRESSURE REDUCES SYSTEMIC-TO-PULMONARY BRONCHIAL BLOOD FLOW IN HUMANS  
Piergiuseppe Agostoni; Vincenzo Arena; Paolo Biglioli; Elisabetta Doria; Andrea Sala; Giuseppe Sini, Milan, Italy
- 1086 EFFECTS OF EXERCISE ON LEFT VENTRICULAR VOLUME AND OUTPUT CHANGES IN SEVERE MITRAL REGURGITATION: A RADIONUCLIDE ANGIOGRAPHIC STUDY  
Carl J. Lavie; James B. Lam; Raymond J. Gibbons, Rochester, Minnesota
- 1092 DNA FLOW CYTOMETRIC STUDIES OF 66 HUMAN LUNG TUMORS ANALYZED BEFORE TREATMENT: PROGNOSTIC IMPLICATIONS  
Franco Salvati; Laura Teodori; Luigi Gagliardi; Mauro Signora; Mauro Aquilini; Giuseppe Stornello, Rome, Italy
- 1099 OXYGENATION IN PATIENTS WITH CHRONIC AIRFLOW OBSTRUCTION AFTER CESSATION OF EXERCISE  
Lutz Forkert; Ronald D. Wigle; Peter W. Munt; Joanne M. Todesco, Kingston, Canada
- 1104 PREOPERATIVE EXAMINATION TO DETECT DISTANT METASTASIS IS NOT ADVOCATED FOR ASYMPTOMATIC PATIENTS WITH STAGES 1 AND 2 NON-SMALL CELL LUNG CANCER: PREOPERATIVE EXAMINATION FOR LUNG CANCER  
Yukito Ichinose; Nobuyuki Hara; Mitsuo Ohta; Akira Motohiro; Tatsuo Maeda; Tomoyuki Nobe; Katsuro Yagawa, Fukuoka, Japan
- 1110 ENDOBRONCHIAL METASTASES DUE TO COLORECTAL CARCINOMA  
Brian W. Carlin; James H. Harrell II; Linda K. Olson; Kenneth M. Moser, San Diego
- 1115 LUNG COLLAGENASE INHIBITORS AND SPONTANEOUS AND LATENT COLLAGENASE ACTIVITY IN IDIOPATHIC PULMONARY FIBROSIS AND HYPERSENSITIVITY PNEUMONITIS  
Martha Montaño; Carlos Ramos; Georgina González; Felipe Vadillo; Annie Pardo; Moisés Selman, Mexico City, Mexico
- 1120 LONG-TERM OUTCOMES FOR ELDERLY SURVIVORS OF PROLONGED VENTILATOR ASSISTANCE  
Ellen H. Elpern; Ruth Larson; Paula Douglass; Robert L. Rosen; Roger C. Bone, Chicago

- 1125 PLATELET-SPECIFIC A<sub>1</sub>-GRANULE PROTEINS AND THROMBOSPONDIN IN BRONCHOALVEOLAR LAVAGE IN THE ADULT RESPIRATORY DISTRESS SYNDROME  
Steven Idell; Richard Maunders; Alan M. Fein; Hanna I. Switalska; G. P. Tuszyński; Jerry McLarty; Stefan Niewiarowski
- 1133 POSTOPERATIVE PLEURAL EFFUSION FOLLOWING UPPER ABDOMINAL SURGERY  
Per H. Nielsen; Søren B. Jepsen; Agnete D. Olsen, Aalborg, Denmark
- 1136 PULMONARY GAS EXCHANGE DURING DIALYSIS IN PATIENTS WITH OBSTRUCTIVE LUNG DISEASE  
W. Douglas Pitcher; Susan M. Diamond; William L. Henrich, Dallas
- 1142 PEEP INCREASES NON-PULMONARY MICROVASCULAR FLUID FLUX IN HEALTHY AND SEPTIC SHEEP  
Moshe Hersch; Andrew Bersten; Susan Robertson; Frank Rutledge; William J. Sibbald, London, Canada
- 1150 SINGLE DAILY-DOSE OF FLOXACIN MONOTHERAPY FOR MYCOBACTERIUM FORTUITUM STERNOTOMY INFECTION  
Wing Wai Yew; Susan Yuk Lin Kwan; Wing Keung Ma; Maung Aung Khin; Che Keung Mok; Hong Kong
- 1153 THE HYPERMETABOLISM; MULTIPLE ORGAN FAILURE SYNDROME  
Richard Barton; Frank B. Cerra, Minneapolis
- 1161 HEALTH EFFECTS OF "PASSIVE SMOKING" ON CHILDREN  
Ira B. Tager, San Francisco
- 1165 AIRWAY HYPERRESPONSIVENESS; MECHANISMS IN EXPERIMENTAL MODELS  
Dean Sheppard, San Francisco
- 1169 VENOUS THROMBOEMBOLISM  
Jorge Olaya; Albert A. Nemcek, Jr.; David Green, Chicago
- 1175 THE PULMONARY PHYSICIAN AND THE HOSPITAL ETHICS COMMITTEE  
Peter B. Terry; Martha W. Elliott, Baltimore
- 1179 MULTIPLE SMALL OPACITIES OF METALLIC DENSITY IN THE LUNG  
Bruce A. Shaffer; Wolfgang W. Schmidt-Nowara, Albuquerque
- 1182 PERSISTENT MIDDLE LOBE ABNORMALITY IN AN EAST AFRICAN MALE  
Steven E. Gradwohl; Robert A. Dietrich; Warren L. Whitlock, Presidio of San Francisco, California
- 1184 BRONCHOALVEOLAR LAVAGE IN THE NONIMMUNOCOMPROMISED PATIENT  
Rick A. Helmers; Gary W. Hunninghake, Iowa City
- 1191 PROLONGED PYREXIA AND LUNG METASTASES: A RARE PRESENTATION OF AN OCCULT EPITHELIOID SARCOMA  
Eyal Raz; Issahar Ben-Dov; Dan Gilon; Galia Rahav; Paul Mogle; Eliezer Rosenmann, Jerusalem, Israel
- 1193 RESOLUTION OF CARDIAC TAMPONADE IN SYSTEMIC LUPUS ERYTHEMATOSUS WITH INDOMETHACIN  
José Manuel Porcel; Alberto Selva; Maria Pilar Tornos; Enrique Galve; Jordi Soler-Soler, Barcelona, Spain
- 1195 EFFECT OF CORTICOSTEROIDS ON DETERIORATION OF ENDOBRONCHIAL TUBERCULOSIS DURING CHEMOTHERAPY  
Hok Sum Chan; Joseph A. Pang, Hong Kong
- 1197 PHRENIC INVOLVEMENT IN CHARCOT-MARIE-TOOTH DISEASE: PATHOLOGIC DOCUMENTATION  
Dawn Gilchrist; Charles K. Chan; John H. N. Deck, Toronto, Canada
- 1199 INTRAVASCULAR LYMPHOMATOSIS (MALIGNANT ANGIOENDOTHELIOMATOSIS) PRESENTING AS PULMONARY HYPERTENSION  
Linda S. Snyder; Keith R. Harmon; Richard D. Estensen, Minneapolis
- 1201 COMPLETE HEART BLOCK DEVELOPING DURING AORTIC VALVULOPLASTY  
Raymond H. Plack; James K. Porterfield; Jeffrey A. Brinker, Baltimore
- 1203 COCAINE-INDUCED ACUTE AORTIC DISSECTION  
Dominick Gadaleta; Michael H. Hall; Roy L. Nelson, Manhasset, New York
- 1205 VENTILATOR DEPENDENCE IN ACUTE SEVERE ASTHMA DUE TO A VARIANT PRESENTATION OF GUILLAIN-BARRÉ SYNDROME  
Richard J. Hamilton; Ralph Puckett; W. Carl Baze-

- more, San Diego
- 1206 HYPERCALCEMIA IN ATYPICAL BRONCHIAL CARCINOID TUMORS  
Martin B. Allen; Jonathan Shamash; Keith M. Kerr; A. Gordon Leitch, Edinburgh, Scotland
- 1208 HYPERTROPHIC OSTEOARTHROPATHY ASSOCIATED WITH PNEUMOCYSTIS CARINII PNEUMONIA IN AIDS  
Subrahmanya Bhat; Albert E. Heurich; Rafael A. Vaguer; Eddy K. Dunn; Arnold M. Strashun; Stephen L. Kamholz, Brooklyn
- 1210 CENTRAL ALVEOLAR HYPOVENTILATION AND SLEEP: TREATMENT BY INTERMITTENT POSITIVE-PRESSURE VENTILATION THROUGH NASAL MASK IN AN ADULT  
Christian Guilleminault, Palo Alto; Riccardo Stoohs; Mammut Schneider; Thomas Podszus; J. Herman Peter; Peter von Wichert, Marburg, West Germany
- 1212 RESPIRATORY FAILURE DUE TO VOCAL CORD DYSPHONIA IN OLIGO-PONTO-CEREBELLAR ATROPHY  
Naoko Aragane; Osamu Katoh; Jozumi Yamada; Yasuo Kuroda; Tadatsugu Maeyama, Saga, Japan
- 1215 TUBERCULIN SKIN TEST IN ASYMPTOMATIC HIV SEROPOSITIVE CARRIERS  
Pier Aldo Canessa; Luca Fasano; Mario Antonio Lavecchia; Antonio Torracca; Maria Luisa Schiattone, Bologna, Italy
- 1216 COTTON FIBER INTRAARTERIAL GRANULOMA AFTER CARDIAC CATHETERIZATION  
John E. McManis; Claude J. Telis; Michael F. Tenholder, Washington, D.C.
- 1216 CURTAILMENT OF CARDIAC RESERVE IN MITRAL VALVE PROLAPSE  
José Antonio Marin-Neto; Lauro Mattar Junior; Benedetto Carlos Maciel; Lourenço Gallo Junior, São Paulo, Brazil
- 1217 EMPHYSEMA VS ASTHMA WITH ANTITRYPSIN DEFICIENCY  
Jack Lieberman; Michael Litner, Sepulveda, California
- 1218 TRANSCUTANEOUS MONITORING AND RESPONSE TO HANDGRIP EXERCISE  
A. Lopez; J. A. Julia, Badajoz, Spain

## NUMBER 6, DECEMBER, 1989

- 1219 DOPEXAMINE IN CARDIORESPIRATORY FAILURE: COMMENTARY ON DRUG RESEARCH IN THE CRITICALLY III  
Carl V. Leier, Columbus, Ohio
- 1219 BETA AGONIST DELIVERY AND THE OUTPATIENT  
Michael J. Bishop, Seattle
- 1220 MUSCARINIC AUTORECEPTORS IN AIRWAYS: THEIR POSSIBLE ROLE IN AIRWAY DISEASE  
Peter J. Barnes, London, England
- 1222 ALLERGISTS NON CARBORUNDUM  
David J. Scheinhorn, Los Angeles
- 1222 DISPARITIES IN ASSESSMENT OF DISEASE ACTIVITY  
Scott T. Petraitz, William J. Martin II, Indianapolis
- 1224 CORRELATION OF CHEST ROENTGENOGRAMS WITH PULMONARY FUNCTION AND BRONCHOALVEOLAR LAVAGE IN INTERSTITIAL LUNG DISEASE  
Kenneth M. Nugent; Michael W. Peterson; Howard Jolles; Martha M. Monick; Gary W. Hunninghake, Iowa City
- 1228 TRANSBRONCHIAL NEEDLE ASPIRATION FOR HISTOLOGY SPECIMENS  
Atul C. Mehta; Mani S. Kavuru; David P. Meeker; Gordon N. Gephart; Carlos Nunez, Cleveland
- 1233 ADMINISTRATION OF DOPEXAMINE, A NEW ADRENERGIC AGENT, IN CARDIORESPIRATORY FAILURE  
Jean-Louis Vincent; Charles Reuse; Robert J. Kahn, Brussels, Belgium
- 1237 COMPARISON OF OUTPATIENT NEBULIZED VS METERED DOSE INHALER TERBUTALINE IN CHRONIC AIRFLOW OBSTRUCTION  
Hugh Mestitz; Janet M. Copland; Christine F. McDonald; Heidelberg, Australia
- 1241 NEBULIZER VS SPACER FOR BRONCHODILATOR DELIVERY IN PATIENTS HOSPITALIZED FOR ACUTE EXACERBATIONS OF COPD  
Richard B. Berry; Richard A. Shinto; Florence H. Wong; Judith A. Despars; Richard W. Light, Long

- Beach
- 1247 THE RELATIONSHIP BETWEEN PULMONARY FUNCTION AND DYSPEA IN OBSTRUCTIVE LUNG DISEASE  
Norman Wolkove; Esther Dajczman; Antoinette Colacore; Harvey Kreisman, Montreal, Canada
- 1252 KETOTIFEN IN THE PROPHYLAXIS OF EXTRINSIC BRONCHIAL ASTHMA; A MULTICENTER CONTROLLED DOUBLE-BLIND STUDY WITH A MODIFIED-RELEASE FORMULATION  
T. C. Medici, P. Radelovic; J. Morley, Zurich, Switzerland
- 1258 NONINVASIVE ESTIMATION OF SYSTOLIC PULMONARY ARTERY PRESSURE USING DOPPLER ECHOCARDIOGRAPHY IN PATIENTS WITH CHRONIC OBSTRUCTIVE PULMONARY DISEASE  
Jean-P. Laaban; Benoît Diebold; Robin Zelinski; Michel Lafay; Hanna Raffoul; Jacques Rochemaure, Paris, France
- 1263 INDEPENDENT PULSED DOPPLER MAPPING TECHNIQUES; LIMITATIONS IN THE PREDICTION OF THE ANGIOGRAPHIC SEVERITY OF MITRAL REGURGITATION  
Ming Wei Liu; Eric K. Louie, Chicago
- 1268 TRANSBRONCHIAL NEEDLE ASPIRATION IN CLINICAL PRACTICE; A FIVE-YEAR EXPERIENCE  
Edward M. Harrow; Frederick A. Oldenburg, Jr; Mark S. Lingenfelter; A. Marshall Smith, Bangor, Maine
- 1273 PREDICTIVE RISK FACTORS FOR PERIANNULAR EXTENSION OF NATIVE VALVE ENDOCARDITIS; CLINICAL AND ECHOCARDIOGRAPHIC ANALYSES  
Bassam Omari; Shelley Shapiro; Leonard Gintzon; John M. Robertson; Joel Ward; Ronald J. Nelson; Arnold S. Bayer, Torrance, California
- 1280 PREDICTION OF PULMONARY ARTERIAL PRESSURE IN CHRONIC OBSTRUCTIVE PULMONARY DISEASE BY RADIONUCLIDE VENTRICULOGRAPHY  
Pierre Mols; Chi-Hoana Huynh; Philippe Dechamps; Nicole Naeije; Marcel Guillaume; Humphrey Ham, Brussels, Belgium
- 1285 IS THERE LOSS OF A PROTECTIVE MUSCARINIC RECEPTOR MECHANISM IN ASTHMA?  
L. Eduardo Ayala; Tahir Ahmed, Miami Beach
- 1292 COMPARISON OF CEFTRIAXONE WITH CEFOTAXIME IN SERIOUS CHEST INFECTIONS  
John H. Reeves; Gary M. Russell; John F. Cade; Malcolm McDonald, Victoria, Australia
- 1298 CHARACTERISTICS OF PATIENTS WITH PRIMARY LUNG CANCER DIAGNOSED AT AGE 50 YEARS OR YOUNGER  
Helen H. McDuffie; David J. Klaasen; James A. Dosman, Saskatoon, Canada
- 1302 CIVILIAN SPONTANEOUS PNEUMOTHORAX; TREATMENT OPTIONS AND LONG-TERM RESULTS  
James P. O'Rourke, Edward S. Yee, Johnson City, Tennessee
- 1307 DEMAND OXYGEN DELIVERY FOR PATIENTS WITH RESTRICTIVE LUNG DISEASE  
Rick Carter; Donald Tashkin; B. Djahed; Eilish Hathaway; Brooke Nicotra; Brian L. Tiep
- 1312 CAN MAXIMAL CARDIOPULMONARY CAPACITY BE RECOGNIZED BY A PLATEAU IN OXYGEN UPTAKE?  
Jonathan Myers; Doug Walsh; Nancy Buchanan; Victor Froelicher, Long Beach, California
- 1317 THE CARDIOVASCULAR EFFECTS OF INHALED FENOTEROL ALONE AND DURING TREATMENT WITH ORAL THEOPHYLLINE  
Amber Platt; Carl Burgess; Hugh Windom; Richard Beasley; Gordon Purdie; Julian Crane, Wellington, New Zealand
- 1321 PULMONARY NON-HODGKIN'S LYMPHOMA IN AIDS  
Louis B. Polish; David L. Cohn; John W. Ryder; Adam M. Myers; Richard F. O'Brien, Denver
- 1327 ACUTE EFFECTS OF HERBAL TEA DUST EXTRACTS ON LUNG FUNCTION  
Eugenija Zuskin; Bozica Kanceljak; Zagreb, Yugoslavia; Theodore J. Wittek Jr; E. Neil Schachter, New York
- 1332 BRAIN METASTASES IN PATIENTS WITH LIMITED SMALL CELL LUNG CANCER ACHIEVING COMPLETE REMISSION: CORRELATION WITH TNM STAGING  
Yukito Ichinose; Nobuyuki Hara; Mitsuo Ohta; Akira Motohiro; Kazuo Hata; Katsuro Yagawa, Fukuoka, Japan
- 1336 HIGH FREQUENCY OF ATOPIC ASTHMA IN A PULMONARY CLINIC POPULATION  
John N. Kalliel; Bruce M. Goldstein; Sidney S. Braman; Guy A. Settpane, Providence, Rhode Island
- 1341 THE SAO<sub>2</sub>/T DIAGRAM AS A USEFUL MEANS TO EXPRESS NOCTURNAL HYPOXEMIA  
Pierre Aubry; Vincent Journeaux; Dominique Rose; Alain Duran; Pierre Levi-Valensi, Amiens, France
- 1346 VENTILATION AND BREATHING PATTERN DURING SLEEP IN DUCHENNE MUSCULAR DYSTROPHY  
P. E. M. Smith; R. H. T. Edwards; Peter M. A. Calverley, Liverpool, England
- 1352 TREATMENT OF LYMPHANGIOLEIOMYOMATOSIS; A META-ANALYSIS  
Am H. Eliasson; Yancy Y. Phillips; Michael F. Tenholder, Washington, DC
- 1356 CARDIORESPIRATORY EFFECTS OF PRESSURE-CONTROLLED INVERSE RATIO VENTILATION IN SEVERE RESPIRATORY FAILURE  
Edward Abraham; Gary Yoshihara, Los Angeles
- 1360 CONTINUOUS IN-LINE NEBULIZERS COMPENSATE PRESSURE SUPPORT VENTILATION  
Christopher D. Beaty; Ray H. Ritz; Michael S. Benson, Seattle
- 1364 RECOVERY OF ALERTNESS AFTER CPAP IN APNEA  
James Lamphere; Timothy Roehrs; Robert Wittig; Frank Zorick; William Conway; Thomas Roth, Detroit
- 1368 RESPIRATORY ACOUSTIC IMPEDANCE IN LEFT VENTRICULAR FAILURE  
Florence B. Depeursinge; Franco's Feihl; Christian Depeursinge; Claude H. Perret, Lausanne, Switzerland
- 1374 ANALYSIS OF RESISTANCE TO GAS FLOW IN NINE ADULT VENTILATOR CIRCUITS  
Franklin H. Dennison; Arthur A. Taft; Shelley C. Mishoe; Laura L. Hooker; Sally Burns Eatherly; Richard W. Beckham, Augusta, Georgia
- 1380 HIGH-FREQUENCY VENTILATION  
Theodore J. Standiford; Melvin L. Morganroth, Ann Arbor
- 1390 DOPPLER ECHOCARDIOGRAPHY IN MODERN CARDIOLOGY  
John P. O'Shea; Arthur E. Weyman, Boston
- 1393 LUNG DEFENSES AGAINST OPPORTUNISTIC INFECTIONS  
Mary F. Lipscomb, Dallas
- 1400 CARDIOVASCULAR EFFECTS OF HIGH-FREQUENCY OSCILLATORY AND JET VENTILATION  
Jay H. Traverse; Heikki Korvenranta; E. Morrill Adams; David A. Goldthwait; Waldemar A. Carlo, Cleveland
- 1405 DIGITAL RESPIROSONOGRAPHY; NEW IMAGES OF LUNG SOUNDS  
Hans Pasterkamp; Chris Carson; David Daien; Yuns Oh, Winnipeg, Canada
- 1413 BILATERAL FOCAL PULMONARY DENSITIES  
Christoph M. Kronauer; Borut Marincek; Erich W. Russi, Zurich, Switzerland
- 1415 A CLASSIC IMAGE OF COMPLETE RIGHT MAIN BRONCHUS AVULSION  
Carl Petterson; Jean Deslauniers; André McClish, Ste-Foy, Canada
- 1418 EVERYTHING THAT WHEEZES IS NOT ASTHMA: A TALE OF AN INDIAN BUSINESSMAN  
Charanjit Lal; Om P. Sharma, Los Angeles
- 1420 ATRIOVENTRICULAR CANAL ASSOCIATED WITH TRISOMY 9  
Bruno Marino; Maria Cristina Digilio; Aldo Giannotti; Bruno Dallapiccola, Rome, Italy
- 1422 RECURRENT HIGH-ALTITUDE ILLNESS ASSOCIATED WITH RIGHT PULMONARY ARTERY OCCLUSION FROM GR: NULOMATOUS MEDIASTITIS  
Kenneth G. Torrington, Boise, Idaho
- 1424 YOHIMBINE-INDUCED BRONCHOSPASM  
Eric Landis; Eric Shore, Hartford
- 1425 PNEUMOCEPHALUS ASSOCIATED WITH NASAL CONTINUOUS POSITIVE AIRWAY PRESSURE IN A PATIENT WITH SLEEP APNEA SYNDROME  
Nizar N. Jarjour; Pamela Wilson, Madison, Wisconsin
- 1426 A MUSCLE-SAVING POSTEROLATERAL THORACOTOMY INCISION  
Shreekanth V. Karwande; J. Crayton Pruitt, Salt Lake City
- 1428 PULMONARY INVOLVEMENT IN BEHCET'S SYNDROME  
Christopher Fairley; John W. Wilson; David Barraclough, Parkville, Australia
- 1430 NONCARDIOGENIC PULMONARY EDEMA FOLLOWING LASER THERAPY OF A TRACHEAL NEOPLASM  
Adelaide M. Miro; Urmila Shivaram; Peter J. P. Finch, Brooklyn
- 1431 CARDIAC AMYLOIDOSIS CAUSING VENTRICULAR TACHYCARDIA; DIAGNOSIS MADE BY ENDOMYOCARDIAL BIOPSY  
Nicholas Stamato; John Cahill; Mark Goodwin; Gayle Winters, Downers Grove, IL
- 1433 RECURRENT CALCIUM EMBOLI IN A PATIENT WITH AORTIC STENOSIS  
John H. Wilson; John J. Cranley, Cincinnati
- 1435 PULMONARY AMYLOIDOSIS WITH PULMONARY ARTERIOVENOUS FISTULA  
Katsuhiko Kamei; Kazuo Kusumoto; Toshimitsu Suzuki, Tokyo, Japan
- 1436 CALCIFIED PLAQUE IN THE SUPERIOR PORTION OF THE MAJOR FISSURE; AN UNUSUAL MANIFESTATION OF ASBESTOS EXPOSURE  
Stephen B. Rupp; Howard Jolles, Richmond, Virginia
- 1438 RAPID MUCOSAL ABSORPTION OF TOPICAL LIDOCAINE DURING BRONCHOSCOPY IN THE PRESENCE OF ORAL CANDIDIASIS  
Barbara Ameer; Mark B. Burlingame; Eloise M. Harman, Gainesville, FL
- 1440 SIMPLE CONVERSION FROM INTRAVENOUS AMINOXYLINE TO TWICE DAILY ORAL THEOPHYLLINE  
Roy A. Pleasants, Dennis M. Williams, Chapel Hill
- 1440 PRIMARY SJOJGREN SYNDROME AND PLEURAL EFFUSION  
R. Alvarez-Sala; F. Sanchez-Toril; J. Garcia-Martinez; A. Zaera; J. F. Masa, Caceres, Spain
- 1441 MEDICAL MANAGEMENT OF HEMOPTYSIS  
N. C. Syabbalo, Umtata Transkei, Southern Africa
- 1441 PNEUMOTHORAX DURING BRONCHOALVEOLAR LAVAGE  
F. Ruiz; I. Casado; E. Manso, Lleida, Spain
- 1442 SYNDROME CAUSED BY METHACHOLINE IN A PATIENT WITH EXERCISE-INDUCED ANAPHYLAXIS  
Alexander H. W. van Assendelft, Kotka, Finland
- 1443 PRIMARY BILIARY CIRRHOSIS AND SARCOIDOSIS  
Demosthenes Bouros, Gordon L. Snider, Boston
- 1443 INTERACTION OF RIFAMPIN AND GLYBURIDE  
Timothy H. Self; Sandra J. Tsiu; John W. Fowler, Jr, Memphis
- 1444 DOSAGES FOR LABELALOL  
Dan Mitchell, Mark Sirgo, Research Triangle Park, NC
- 1445 AUTHOR INDEX (VOLUME 96, JULY-DECEMBER, 1989)
- 1451 SUBJECT INDEX (VOLUME 96, JULY-DECEMBER, 1989)



